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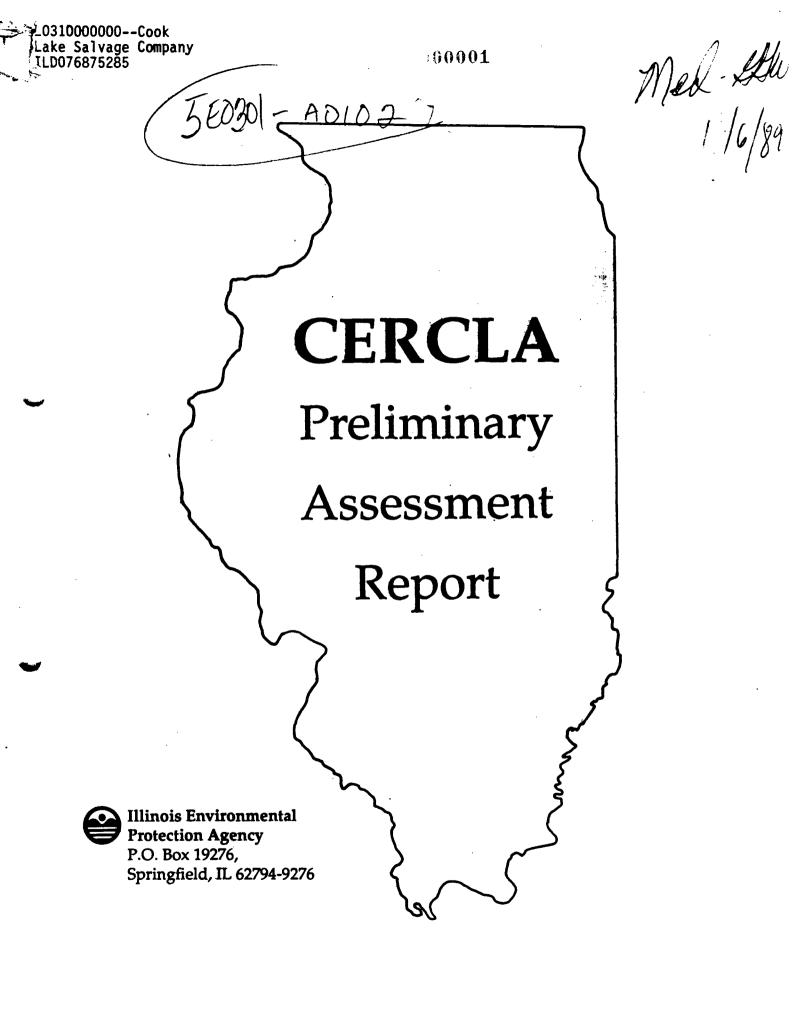
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L0310000000 -- Cook County Lake Salvage Company ILD076875285

EXECUTIVE SUMMARY

The Lake Salvage Company operated a wire reclamation incinerator from 1976 until 1986. This incinerator was used in an effort to recover copper from copper-bearing scrap by burning off the insulation on scrap wire.

Lake Salvage utilized a RCF Model 8001 incinerator. At the beginning of the process, heavy cable and house wire was placed in the primary chamber where it was ignited by natural gas. Once the wire started burning, these burners were turned off. The gas given off from the primary chamber flowed to the secondary chamber. Between the primary and the secondary chambers, the incinerator was equipped with a water spray to cool the gas and help remove fly ash particles. However, it was the practice of the operator to rarely utilize this feature.

Once the gas entered the secondary chamber, the two secondary burners provided additional treatment. The primary and secondary burners were operated on average with the heat input of 450,000 BTU/hr. and 900,000 BTU/hr., respectively. The gas flowed from the secondary chamber to the after burner where the flue gas was treated by the heat input of approximately 450,000 BTU/hr. No temperature monitoring device existed on the incinerator.

Following the incineration of the insulation on the wire, the wire was removed from the primary chamber and stored on-site. After removal from the primary and secondary chambers, it was disposed of as general refuse at a municipal landfill.

The incinerator was operated five days a week depending upon the availability of wire. The average load according to the operator was approximately 500 lbs./load.

The Lake Salvage Company applied for a construction permit from IEPA to build their incinerator on July 29, 1974. This permit was granted by the Division of Air Pollution Control on August 26, 1974. On August 11, 1976, the Agency granted Lake Salvage a permit to operate the incinerator. The permit was designated ID #031600 EPK/Permit No. 06020275. This permit was subsequently renewed on March 16, 1981 and April 23, 1986.

In September 1986, Lake Salvage closed due to lack of business and the poor health of the owner.

On April 15, 1987, ash and soil samples were collected at the Lake Salvage site as part of an incinerator study commissioned by the IEPA and conducted by representatives of the Radian Corporation.

The following table lists the results of the April 15, 1987 samples.

	ASH SAMPLE		SAMPLE
	Secondary Chamber	Storage Area	Incinerator Area
2378-TCDD	26.4	0.09	0.169
Other TCDD	83.5	0.72	0.53
12378-PCDD	60.6	0.25	0.334
Other PCDD	335	2.43	2.94
123478-HxCDD	92	0.32	0.478
123678-HxCDD	203	0.88	1.04
123789-HxCDD	192	1.04	0.808
Other HxCDD	863	6.27	6.83
1234678-HpCDD	1,285	9.59	9.6
Other HpCDD	672	7.76	7.2
OCDD	3,554	28.8	25.3
Total PCDD	7,385	58.1	55.3
2378-TCDF	2,264	2.58	21.9
Other TCDF	6,291	14.3	34.1
12378-PCDF	2,994	3.69	29.8
23478-PCDF	2,216	2.8	10.2
Other PCDF	6,283	12.7	33.1
123478-HxCDF	3,981	12.2	45.3
123678-HxCDF	[0.045]	3.88	11.6
234678-HxCDF	1,367	4.24	8.23
123789-HxCDF	1,100	0.61	11.5
Other HxCDF	1,352	13.9	12.7
1234678-HpCDF	3,198	27	51.5
1234789-HpCDF	3,544	6.56	25.8
Other HpCDF	3,272	11.5	28.3
OCDF	17,467	67.8	211
Total PCDF	55,328	184	535
Total PCDD			
and PCDF	62,713	242	590

Concentrations expressed in ng/g.

On June 8, 1987, the Agency informed the owners of Lake Salvage Company of the results of the April 15, 1987 sampling.

On June 28, 1987, the Agency sent the owners of Lake Salvage Company a Compliance Inquiry Letter requesting a Pre-Enforcement Conference to be held July 14, 1987. In addition, this letter requested that within ten days of receipt of the letter, the owners submit in writing that the site had ceased operations and the area had been secured.

^[] indicates the minimum detection limit for an undetected compound.

On July 2, 1987, the owners of Lake Salvage informed the Agency that the business had closed in September 1986 and that the ignition burners and after burners would be dismantled and the area secured.

The Agency withdrew the operating permit on June 10, 1987. On August 9, 1988, Agency representatives conducted an off-site reconnaissance inspection of the site in an attempt to gain additional information and confirm Agency records.

The site is currently surrounded by a six foot fence which is constructed of various building materials. Barbed wire is strung on the top of the north wall. Entry to the site is possible at various points on the east and south walls due to holes in the fence.

During the reconnaissance inspection, the incinerator building and the smoke stacks were still in place, however, it was not possible to confirm the condition of the incinerator from off-site.

Scrap metal and general refuse were scattered all along the site. At the northeast corner of the incinerator, the soil appeared to be grey in color. There is a possibility that ash may still be present on-site.

During the April 15, 1987 sampling effort, it was noted that two transformers were on-site, however, no transformers were seen during the reconnaissance inspection.

The Lake Salvage Company is located in an economically depressed residential area with several small industries located nearby.

North of the site, the Chicago commuter train runs on elevated tracks above Lake Street. On the north side of Lake Street is the Pekay Machine and Engraving Company and the A. Messe and Sons, Plumbing and Heating Supplies.

East of the site, separated by a deteriorating wooden fence, is Mobley Auto Wreckers.

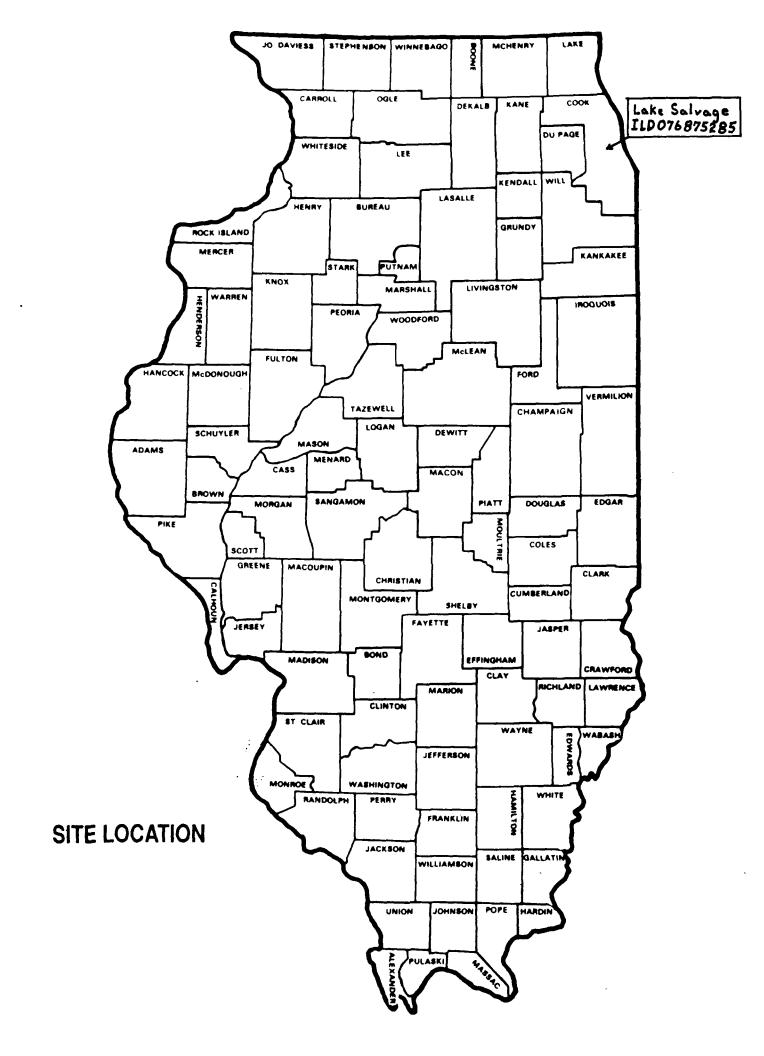
South of the site is owned by Industrial Adhesives.

West of the site is a residential area separated from the site by a railroad track.

At this time, the owner of the site is attempting to sell this property.

This site has been assigned a medium priority rating and is recommended for a site inspection.

GR:tk:4/32/29-1(9/7/88)



SEPA

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

⇔EPA	PRELIMINAR' PART 1 - SITE INFORMA			NT		75175 875 285
II. SITE NAME AND LOCATION						
01 SITE NAME (Legal, common, or descriptive name of afe)		02 STREE	T, ROUTE NO., OR 8	PECIFIC LOCATION	N IDENTIFIER	
Lake Salvage Compo	MY	25	27 We.	st Lake		
OS CITY U	•					07 COUNTY OF CONG
Chicago		IL	60612	Cook		103117
	LONGITUDE	ł				
4 1 5 3 0 0.0 0	874120.D	<u> </u>				
M. RESPONSIBLE PARTIES						
01 OWNER IV Impure		02 STREE	T (Business, maring, res	/		
Alex Sinkin		25	27 West	Lake 6	531 N.	Sacramento Ave
03 CITY		04 STATE	05 ZIP COO€	1		
Chicago		IIL	60612	1312 1TA	9-8882	
07 OPERATOR (If known and different from owner)		OF STREE	T (Business, mailing, ree	idential)		
Same		Sam	<u> </u>			
00 CITY			11 ZP CODE	12 TELEPHONE		
Sam e		IL	Same	1) SA		<u> </u>
A. PRIVATE . 8. FEDERAL:			_ C. STATE	DD.COUNT	/ () E. MUI	NICIPAL
F. OTHER:	(Aganay name)		_ G. UNKN	DWN		
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check a	(Spidily) Filet sould					
☐ A. RCRA 3001 DATE RECEIVED:		LED WAST	E SITE ICENCIA 100	U DATE RECEN	ED:	Y YEAR M C NONE
IV. CHARACTERIZATION OF POTENTIAL H						
OI ON SITE NISPECTION JE YES DATE 8 / 7 / 8 8 D NO MONTH DAY YEAR	[] E. LOCAL HEALTH OF	PA CONTRA		C. STATE	D. OTHER	CONTRACTOR
02 SITE STATUS (Cheef engl	CONTRACTOR NAME(S): 03 YEARS OF OPE	PATICON				
☐ A. ACTIVE #8. INACTIVE ☐ C. UNIX	RNOWNA		76 Sept.	1986 EMR	□ UNKNOWN	1
04 DESCRIPTION OF SUBSTANCES POSSIELY PRESEN Organic Chemical (Toxic/Persistant)						
os description of potential his motion of emison of contaminant (Direct Contact (Population)	MENTANDION POPULATION Population				7	
V. PRIORITY ASSESSMENT						
01 PRIORITY FOR INSPECTION (Check one. If high or module 4. HIGH (Inspection required promptly) (Inspection required promptly)	n is checked, complete Parl 2 - Waste Ink IM	rmetion and Po	2 - Description of Maza D. NONE (No Author)		oidents) late current disposit	ilan famili)
VI. INFORMATION AVAILABLE FROM			,			
01 CONTACT	02 OF (Agenty/Organ	outlant				03 TELEPHONE NUMBER
Alex Simkin	Lake So	vees	Company			312 1TA9-8882
04 PERSON RESPONSIBLE FOR ASSESSMENT	06 AGENCY	1	NIZATION /	07 TELEPHON	[OS DATE
Game L. Reside	TF PA	I Pea-R	madial Barra	(217)78	とっとなるし し	

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POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

4	74	PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION			ILD 076875285		
IL WASTE ST	TATES, QUANTITIES, AN	D CHARACTER	ISTICS				
DI PHYSICAL S	TATES CHILD IN MINISTER	02 MASTE QUANT	TY AT SITE	DE WASTE CHARACTE	RISTICS CHARACTE	ry	
A SOUD OPOWDE C SLUDGE	E SLUPRY R FINES F LIQUID E G GAS		Unikanan	ATOXIC B CORRO C RADIOA (D) PERSIST	CTIVE GRAM	TIOUS JEXPLO MABLE & REACT	TIVE
D OTHER	- Sportfu	NO OF DRUMS					PPLICABLE
B. WASTE T	YPE			4			
CATEGORY	SUBSTANCE H	ME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE					 -	
OL#	OLY WASTE						
50 L	SOLVENTS			† — — — — — — — — — — — — — — — — — — —			
PSO	PESTICIDES						
occ	OTHER ORGANIC CO	EMCALS					
OC	MORGANIC CHEMIC	AS .					
ACO	ACIOS						
BAS	BASES						
MES	HEAVY WETALS						
IV. HAZARD	OUS SUBSTANCES .see A		· · · · · · · · · · · · · · · · · · ·				
OI CATEGORY	02 SUBSTANCE N	and the same of th	03 CAS MUNICER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	2.17.8-TCOD		1746016	Ash disposed	of es	14.4	ppb
	1.3.7.8-PCDD			general ref	use in	60.6	ppb
	123428-H.CD	0		Yand Eill		92.0	Ppb
	113179-H-CD	D				203.0	Peb
	12.5 7.89 - Hx CDI					172.0	pph
	1234678-HoCE	20				1285.0	ppb
	OCDD					3554.0	Ro
	2.3.7.8-TCDF			Coxethelies	. iv <	2264-0	geb
	12378 - PCDF			ash		2994.0	pp
	234.78-PCDF		_			2216.0	Pph
	1.2.3.4.7.9 - Hz	PF				3981.0	pph
	13.4678-HeC					13670	ppb
	1.1.37.89-HC	DF		···		1100.0	fpb.
	1.2.3 46.7.8-16	CDF				3198.0	ppb
	1,2,3,4,78,9 - He	CDF		 		3544.0	994
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CATEGORY			02 CAS NLAIBER	CATEGORY	01 FEEDSTO	CX NAME	02 CAS NUMBER
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FOS	N C W		KN.	FDS	UN KNO		K _N
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VI. SOURCE	S OF REFORMATION CO			·			
TEPAZENT	1/88-088 May, 1988 As of Air Pollotions Courtro	L Scapling of I	a Insiperators :	- Elimos (fort 1	md 2)		

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

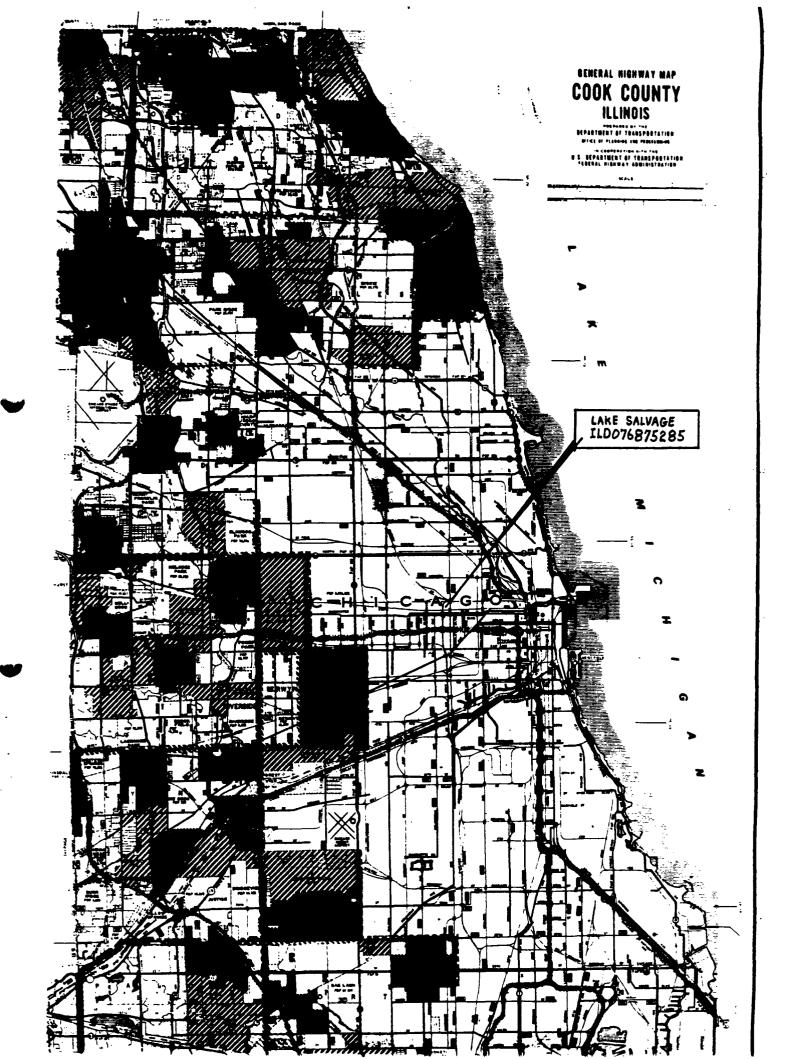
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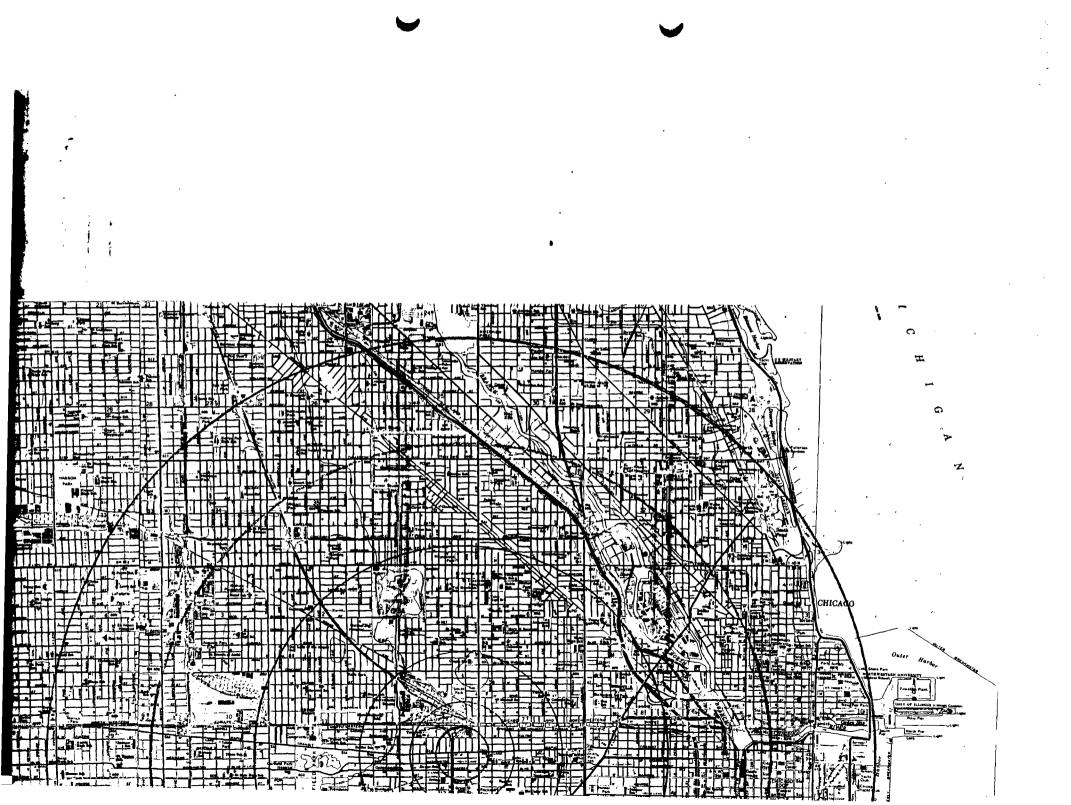
PART 3 - DESCRIPTION OF H	IAZARDOUS CONDITIONS AND INCIDE	NTS TEPP	18 0 13 283
II. HAZARDOUS CONDITIONS AND INCIDENTS		· · · · · · · · · · · · · · · · · · ·	
01 A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 © OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
Un known			
01 3 B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	L. POTENTIAL	.: ALLEGED
Unknown			
01 YC CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: UNKNOWN	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL	XALLEGED
During the persid of 8/74 with 9/86	this site exercised as a wire	e burning faci	lity. Ow April
15,1987 the IEPA and their contracter Rulevels of dioxin ash in the burners and i	diau Corp. Sampled this site. The wife soil at the site.	ne results" indic	ated high
01 () D FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	C: POTENTIAL	C ALLEGED
Unknown			
01 ME. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: UNKNOWN	02 (2 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL	XALLEGED
During the approximately ten years this prople entering this site would have been in ash which would be coming from the burning operation	wire burning facility operated the direct contaminate with the contaminate tion or by wind blown dust.	e employees as w s in the soil and	uell as the any airborne
01 XF. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 1 OBSERVED (DATE 1/15/27) 04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
Sampling of the on-site sail during the	· April, 1987 inspection revealed	contamination	of those
hazardous substances listed in Part 2, see Tu			
01 L3 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 L1 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	E. POTENTIAL	· ALLEGED
Unknown			
01 X H. WORKER EXPOSURE/INJURY	02 [] OBSERVED (DATE	X POTENTIAL	J. ALLEGED
03 WORKERS POTENTIALLY AFFECTED: LANGUAGE	04 NARRATIVE DESCRIPTION	, .	
See F.			
01 30. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: Unikarana	02 (1) OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	M POTENTIAL	G ALLEGED
The wire burning facility was located in	in a economically depressed re	sidential area.	

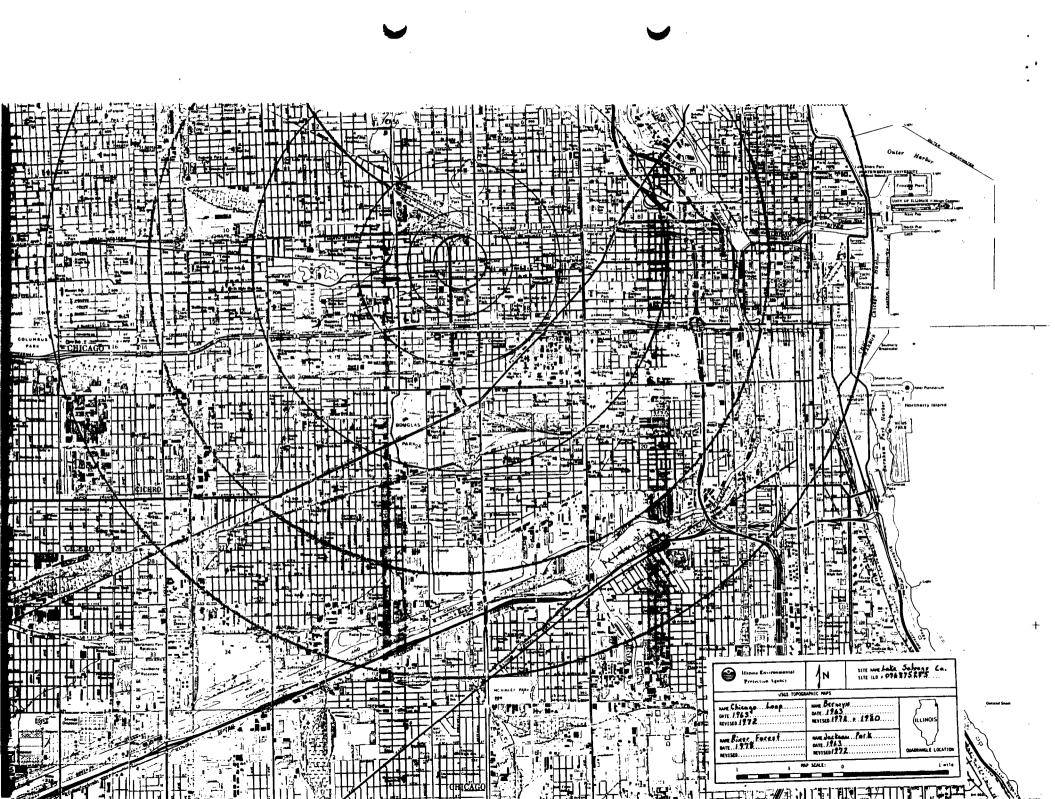
POTENTIAL HAZARDOUS WASTE SITE

L DENTIFICATION

	MARY ASSESSMENT MAZARDOUS CONDITIONS AND INCIDENT	S ILD 07	6875285
E HAZARDOUS COMMITTONS AND INCIDENTS COMMITTED			
01 C. J. DAMAGE TO FLORA 04 IMMUNATIVE DESCRIPTION	02 C OBSERVED (DATE)	O POTENTIAL	C ALLEGED
Uarkasaara			
01 CI K DAMME TO FALMA 04 IMPORTING DESCRIPTION and a second of second	02 D OBSERVED (DATE)	O POTEMAL	O ALLEGED
thekasees			
01 () L. CONTAMBATION OF FOOD CHAIN 04 NAMED ATIVE DESCRIPTION	02 CI OBSERVED (DATE)	POTENTIAL	□ ALLEGED
Unknown			
01 XM UNSTABLE CONTABBIENT OF WASTES 60 POPULATION POTENTIALLY AFFECTED UNKNOWN	02) CORRENVED (DATE 4/15/87_) 04 NAMATIVE DESCRIPTION	O POTENTIAL	O ALLEGED
See C and F.			
OI XIII DAMMOE TO OFFSITE PROPERTY OI THINNATIVE DESCRIPTION	02 L. OBSERVED (DATE:)	≭ POTEMAL	[] ALLEGED
See I.			
01 XO CONTAMBATION OF SEWERS, STOPM DAMES, WAYT 04 INSTRATOS DESCRIPTION	Ph 02 D OBSERVED (DATE:)	A POTENTIAL	O ALLEGED
Airborne ask which actiled on the su partially carried assayed to storm drains and	urrounding area would have a d to worth,	high potential	to be
01 E. P. BLEGALAMAITHORIZED DUMPNG 04 NAMATINE DESCRIPTION	02 CONSERVED (DATE:)	O POTENTIAL	C ALLEGED
Unkapus			
OS DESCRIPTION OF ANY OTHER IOLOWIL POTENTIAL, OR AL	LEGED HAZAMOS		
Unikan u si			
B. TOTAL POPULATION POTENTIALLY APPECTED: 210	2,000		
RV. COMMENTS			
V. SOURCES OF REFORMATION COMPANY STREET, S. C.	tu una nora nurt		
TEPA/ENV/ST-028 May, 1988, Ash Sampling of the I)	
The Minister Streetery (Part 3, Sec 1,0) No vi. Degerood 18PA-Eufopermant (Part 3, Sec 11) 18PA/DLPC Recommissance Inspection 8-9-58 (Par	rt 3. Sec R.F. N.I. M.O)		

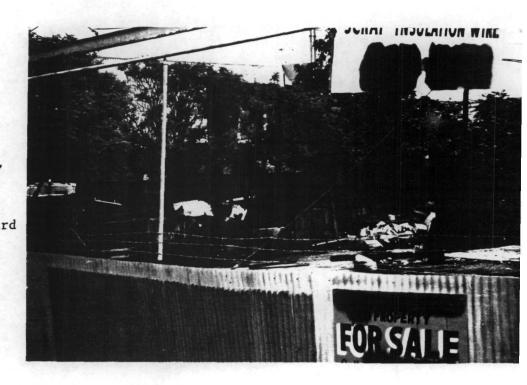






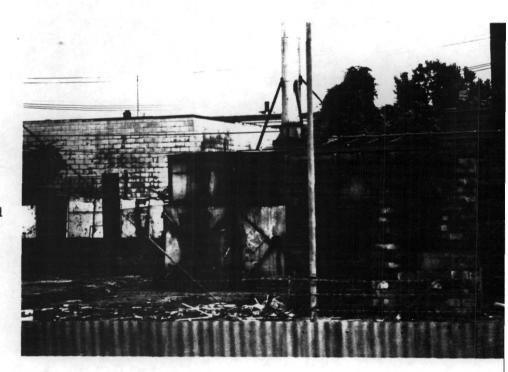
DATE: 8-9-88			
TIME:		1	
Photograph by:			
Gary L. Reside			
Location:			
Lake Salvage Company			
2527 W. Lake st.		4	
Comments: Picture taken toward	1		
Sign in front of Lake Salvage			
Company site.			-
1.			

DA'	TE: <u>8-9-88</u>
TI	ME:
Ph	otograph by:
	Fary L. Reside
	cation: Lake Salvage Compa
	2527 W. Lake St.
Cor	nments: Picture taken to
Vi	ew from bake street of
	theast corner of site.

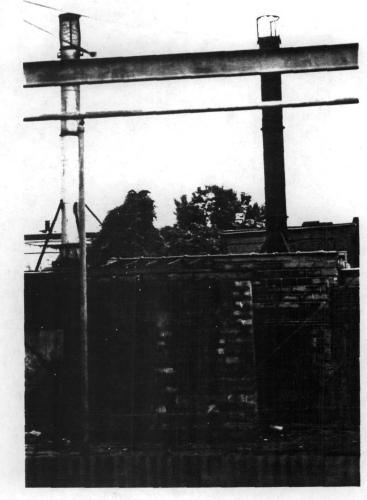


DATE: 8-9-88	LEBAR INOU	
TIME:	SCRAP INSULATION WIRE	
Photograph by:		
Gary L. Reside		
Location:		
Lake Salvage Company		
2527 W. Lake St.		
Comments: Picture taken toward	Carried States	
View from hake street of		
Southeast corner of site.		
	1-1-6/11-	
3.	FUESALE HIME	

DATE: _	8-9-88
TIME: _	11:00 A.M.
Photogra	aph by:
Gary	L. Reside
	n: Lake Salvage Company
	W. Lake St.
Comments	s: Picture taken towar
View +	from Lake Street, South
to wire	burners.
/1	



DATE: 8-9-88	
TIME: 11:00 A.M.	
Photograph by:	
Gary L. Resid	
Location:	
Lake Salvage C	Company
2527 W. Lake	<u>St.</u>
Comments: Picture ta	ken toward
View from Lake Stre	et, South
to wire burners.	
5.	



Photograph by:

Gary L. Reside

Location: Lake Salvage Company

2527 W. Lake 5t.

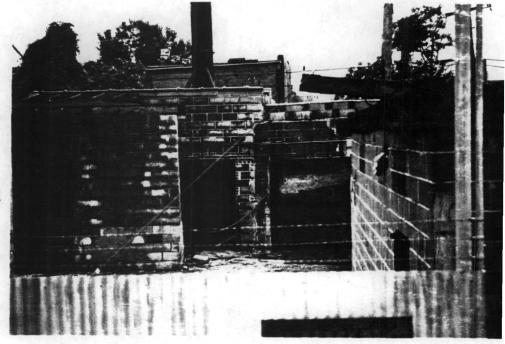
Comments: Picture taken toward

View from Lake Street of

Northwest corner of wire

burners.

DATE: <u>8-9-88</u>



DATE: 8-9-88				
TIME: 11:00 A.M	4	Lw.	4	
Photograph by:	M Q			
Gary L. Reside				We -
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Lake Salvage Company	-			
2527 W. Lake Street	* 800 C			
Comments: Picture taken toward	- \ -			
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Northwest corner of site.		100 100		11 11 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7	110		Call .
7.				
DATE:				
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Photograph by:				
<u>'</u>				
Location:				
Comments: Picture taken toward	l			

Supporting

Documentation

Table of Contents

- A. Lake Salvage Company correspondence. July 29, 1974. List of Management Personnel.
- B. IEPA/DAPC Construction Permit. August 26, 1974.
- C. Report of Results of Particulate Emission Tests on Model RCF 8001 Incinerator at Lake Salvage Co. December 2, 1975.
- D. IEPA/DAPC Operating Permit denied. March 22, 1976.
- E. IEPA/DAPC Inter-Agency Correspondence, April 28, 1976.
- F. IEPA/DAPC Operating Permit denied. May 14, 1976.
- G. Commercial Testing and Engineering Company correspondence. May 27, 1976.
- H. Lake Salvage Company correspondence. July 21, 1976. Request permit application be granted.
- I. IEPA/DAPC Application for operating permit. July 23, 1976.
- J. IEPA/DAPC Lake Salvage Company operating permit approved. August 11, 1976.
- K. IEPA/DAPC Inspection reports.
- L. IEPA/DAPC Operating permit renewal. March 16, 1981.
- M. IEPA/DAPC Operating permit renewal. April 23, 1986.
- N. IEPA/DAPC Compliance Inquiry Letter. June 25, 1987.
- O. Lake Salvage Company correspondence. July 2, 1987. Notification that company had closed down in September, 1986.
- P. IEPA/DAPC withdraw of Lake Salvage Company operating permit July 2, 1987.
- Q. Sketch of Lake Salvage Company Incinerator.
- R. Field notes taken during April 15, 1987 sampling of Lake Salvage Company.
- S. Table of types of wire use and their composition.
- T. Table of Tonic Equivalent concentrations for contaminants at Lake Salvage Company.
- U. Analytical results of sampling conducted on April 15, 1987 at Lake Salvage Company.

RED 1/12 FLE 6 425

2527-29 WEST LAKE STREET CHICAGO, ILLINOIS 60612

TA9-8882

July 29, 1974

Application #C 4 06 047 I.D. # 031 600 EFK

Illinois Environment Protection Agency 2200 Churchill Road Springfield, Illinois 62706

Attention: Mr. Keith J. Conklin, P.E. Manager, Permit Section Division of Air Pollution Control

Dear Sir:

The Board of Directors of the Lake Salvage Company, Inc. do hereby approve and authorize Mr. Wayne R. Bauman of the P.F.B. Incinerator Company to sign the application for the construction permit #C 4 06 047 on behalf of the Lake Salvage Company, Incorporated.

Sincerely yours,

President

Alex Simkin

Secretary

Irwim Simkin

Treasurer

Edward Simkin

Edward Simken

Reopen FLC

RECEIVED
JUL 31 1974

FINALLY OF CARREST OF SOCIAL

August 26, 1974

LAKE SALVAGE CO., INC. 2527 West Lake Street Chicago, Illinois 60612

Attention: Mr. Alex Simkin

Reference

Application No. - C 4 06 047
I. D. No. - 031 600 EPK
Received - June 14, 1974
Construction of - Wire Reclaiming Furnace
Location - 2527 West Lake Street

Chicago, Illinois

Cook County

Gentlemen:

Permit is hereby granted to construct the above-referenced equipment. This permit is granted subject to the following conditions:

- 1. Standard conditions attached hereto and incorporated herein by reference.
- 2. The following special condition:
 - a. Within 30 days of commencement of operation, the particulate matter concentrations in the effluent stream shall be measured, using the procedures described in the ASME Test Code 27-1957 as revised from time to time, or other equivalent procedures approved by the Agency, by an approved independent testing service. The results of these tests, in triplicate, will be forwarded to the Agency immediately after the test results are compiled and finalized. The Agency may witness these tests. The Agency is to be notified a minimum of thirty (30) days prior to the expected date of these tests and further notified a minimum of five (5) working days prior to the test of the exact date, time and place of these tests.

Very truly yours,

Keith J. Conklin, P.E. Manager, Permit Section Division of Air Pollution Control

WDT:jab V Chi NEC

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Marie de Leonardo

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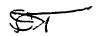
C406047

LAKE SALVAGE CE, INC.

APPLICANT REQUESTS A PERMIT
TO CONSTRUCT AN INCINERATOR
FOR A WIRE RECLAIMING PROCESS.
APPLICANT HAS BEEN GRANTED AN
INSTALLATION PERMIT BY THE CITY
OF CHICAGO WITH FINAL APPROVAL
PENDING ON AN EMISSION TEST AFTER
INSTALLATION,

FILE FOR THIS UNIT, WE MAST

PERMIT GRANTED WITH STACK TEST REGUIRED, 8-19-74





STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

	FOR AGENCY USE ONLY
ADDI TOATTON FOR A REPUTT	LOK MEETEL OSE OAFE
APPLICATION FOR A PERMIT (A)	I. D. NO
CONSTRUCT OPERATE	PERMIT NO.
NAME OF FOULTHERT TO BE	·
CONSTRUCTED OR OPERATED WIRE RECLAIMING TO	SNACE (B) DATE
<u></u>	
Ta. NAME OF OWNER:	2a. NAME OF OPERATOR: EMPLOYEES OF
1b. STREET ADDRESS OF OWNER:	LAKE SALVAGE CO, INC. 2b. STREET ADDRESS OF OPERATOR:
2527 W LAKE ST.	2527 W. LAKE ST.
1c. CITY OF OWNER:	2c. CITY OF OPERATOR:
Chicago	Zd. STATE OF OPERATOR: Ze. Zip CODE:
Id. STATE OF OWNER: IE. ZIP CODE: GOLD V	
T TELVOIS	I LLINGIS G-EI
3a. NAME OF CORPORATE DIVISION OR PLANT:	3b. STREET ADDRESS OF EMISSION SOURCE:
LAKE SALVAGE CO. INC.	CITY 3e. TOWNSHIP: 3f. COUNTY: 3g. ZIP CODE:
3c CITY OF EMISSION SOURCE. 24 LOCATED WITHIN	CITY 3e. TOWNSHIP: 3f. COUNTY: 3g. ZIP CGOE:
Chicago Succession Source.	JNO CORK COCK
4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL)	5. TELEPHONE NUMBER FOR AGENCY TO CALL:
ALEX SIMKIN	TA.9-8882 (312)
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE)	7. YOUR ID NUMBER FOR THIS APPLICATION:
Mowner: ☐ OPERATOR ☐ EMISSION SO	OURCE (C) S.P 8001
	•
3. THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CO	ERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND
FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION	REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT.
BY AFFIXING HIS SIGNATURE HERETO HE FURTHER CERTIFIES THAT	HE IS AUTHORIZED TO EXECUTE THIS APPLICATION.
AUTHORIZED SIGNATURE(S):(D)	
By Warene R. Paumann 6/10/74	ВУ
SIGNATURE DATE	SIGNATURE
WAYNE R. BAUMANN	WARE AR BAYINER UNITE AF AVAILED
TYPED OR PRINTED NAME OF SIGNER	TYPED OR PRINTED NAME OF SIGNER
OWNER - PF.B. INCINERATOR CO.	TITLE OF SIGNER
(A) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION	ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY
ONLY BE USED TO REQUEST ONE TYPE OF PERMIT - CONSTRUCTION O	
(B) CLEARLY IDENTIFY THE GENERIC NAME OF THE EQUIPMENT TO BE CO	NSTRUCTED OR OPERATED. SUCH IDENTIFICATION WILL APPEAR ON THE
PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. T	
IN NUMBER WILL BE REFERENCED IN ALL CORRESPONDENCE. RELATIVE T	GENCY TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR IDENTIFICATION OF THIS APPLICATION, FROM THIS AGENCY. YOUR IDENTIFICATION NUMBER MUST
NOT EXCEED TEN (10) CHARACTERS.	Library and into Mornel. Hour Identification Number 7051
(D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH PCB REGS	., CHAPTER 2, PART 1, RULE 103(a)(4) OR 103(b)(5) WHICH STATES:
"ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED B CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE	NY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."
IF THE OWNER OR OPERATOR S.A. CORPORATION SUCH CORPORATION	I MUST HAVE ON FILE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION SONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR
OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PER OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.	SONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR
a contract of the contract	

APC-200

9.	AN OPERATING PERMIT APPLICATION MUST BE SUBMITTED IN <u>DUPLICATE</u> . A <u>CONSTRUCTION</u> PERMIT APPLICATION FOR CONSTRUCTION IN <u>COOK COUNTY</u> OUTSIDE OF THE CORPORATE LIMITS OF CHICAGO MUST BE SUBMITTED IN <u>QUADRUPLICATE</u> . A <u>CONSTRUCTION</u> PERMIT APPLICATION IN ALL OTHER LOCATIONS MUST BE SUBMITTED IN <u>TRIPLICATE</u> .									
10.	ESTABLISHMENTS.	TANCES TO THE NEAREST RESI	IDENCES, LODGINGS, A	ANCES TO THE MEAREST BOUNDARY NURSING HOMES, HOSPITALS, SCHO EN SUBMITTED, INDICATE THE ASS APPLICATION NO.	OLS AND COMMERCIAL AN	ID MANUFACTURING				
11.	BY THIS PERMIT A EQUIPMENT, AND S	APPLICATION. THE DIAGRAM SHALL SET FORTH MAXIMUM FL	SHALL INCLUDE LABE LOW RATES FOR (1) A	ALL EMISSION SOURCES AND ALL LS FOR EACH EMISSION SOURCE AN LL PROCESSING EQUIPMENT, (2) A OF SHEETS:	ND EACH ITEM OF AIR PO NLL AIR POLLUTION CON	DEFITTON CONTROL				
12.	SHALL COMPLETE A	ND SUBMIT THE APPLICABLE	PERMIT APPLICATION	TROL EQUIPMENT IDENTIFIED ON T FORMS. THE FLOW DIAGRAM SHAL IPMENT IS EXHAUSTED. IF IT IS	L INDICATE THROUGH WH	ICH STACK OR JENT				
13.	IF THIS IS AN AP OR CONSTRUCTION	PLICATION FOR AN OPERATIN PERMITS. HE SHALL COMPLE	G PERMIT, AND THE AP TE FORM APC-210, E	PPLICANT IS INCORPORATING BY RENTITLED "DATA AND INFORMATION	EFERENCE PREVIOUSLY G INCORPORATION BY	RANTED INSTALLATION REFERENCE."				
14.	IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, AND THE STARTUP OF ANY EMISSION SOURCE DESCRIBED BY THIS APPLICATION PRODUCES AN AIR CONTAMINANT IN EXCESS OF APPLICABLE STANDARDS, THE APPLICANT MAY REQUEST PERMISSION TO EXCEED SUCH STANDARDS BY COMPLETING FORM APC-203, ENTITLED "OPERATION DURING STARTUP."									
`5. •	IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, AND THE APPLICANT IS APPLYING FOR PERMISSION TO OPERATE AN EMISSION SOLPCE DURING MALFUNCTIONS OR BREAKDOWNS PURSUANT TO PCB REGS., CHAPTER 2, RULE 105, THE APPLICANT MAY REQUEST SUCH PERMISSION BY COMPLETING FORM APC-204, ENTITLED "OPERATION DURING MALFUNCTION AND BREAKDOWN."									
16.	IF THIS IS AN API WITH APPLICABLE I	PLICATION FOR AN OPERATING REGULATIONS, THE APPLICAN	G PERMIT AND ALL OR T SHALL COMPLETE FO	ANY PART OF THE PROCESS MUST RM APC-202, ENTITLED "COMPLIA	BE CONTROLLED OR MOD NCE PROGRAM & PROJECT	IFIED TO SCMPLY COMPLETION SCHEDULE."				
17.	IF THIS IS AN APP PLAN? Y	PLICATION FOR AN OPERATING	G PERMIT, DOES THE	OPERATION COVERED BY THIS APPR	ICATION REQUIRE AN E	PISODE ACTION				
18.	GOVERNING THE COM	N SOURCE COVERED BY THIS A NTROL OF AIR POLLUTION," A OF THE ENVIRONMENTAL PROT	ADOPTED RY THE FORMI	APRIL 14, 1972, IN COMPLIANCE ER AIR POLLUTION CONTROL BOARD YES NO	WITH THE "RULES AND AND CONTINUED EFFEC	REGULATIONS TIVE PURSUANT				
19.	IF "YES," CITE PO	BOARD ON OR BEFORE JUNE ON OR BEFORE APRIL 14, 1 BLF LIMITATIONS OF THE "BU	13, 1972? DAT 1972, COMMENCED CONS	PERATION THE SUBJECT OF A VARIABLE YES NO TE OF BOARD ORDER: STRUCTION OF EQUIPMENT OR MODIS GOVERNING THE CONTROL OF AIR SECTION 49(c) OF THE ENVIRONMENT OF THE E	FICATIONS SUFFICIENT	TO ACHIEVE COMPLIANCE				
,	IF "NO," EXPLAIN	IN DETAIL AND MARK YOUR E			MINE PROTECTION ACT.					
20.	PARTICULATE MATTE ON THE PLANT OR F	ER. SUL fur Dio xide. Carbon	N MONOXIDE, OXIDES (SHALL INCLUDE ALL EN	CANT SHALL SUBMIT AN ESTIMATE OF NITROGEN, AND ORGANIC MATER MISSION SOURCES LOCATED ON THE	IAL EMITTED FROM ALL	SOURCES LOCATED				
	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATER IAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR				
PARTI MATTE	CULATE R		SULFUR DIOXIDE		NITROGEN OXIDES					
		LB		LB		LB				
ORGAN MATER			CARBON MONOX IDE							
	_	LB		LB		-				
21.	WHAT IS THE SIZE	(IN ACRES) OF APPLICANT'S	PREMISES?							
22.	LIST AND IDENTIFY	ALL FORMS, EXHIBITS, AND	OTHER INFORMATION	SUBMITTED AS PART OF THIS APP	LICATION. PLEASE NUM	BER EVERY PAGE				

C31600

P. F. B. INCINERATOR COMPANY RTE. 1, BOX 251, GENOA CITY, WIS. 53128 (414 - 279 - 6565)

STATE of ILLINOIS DIV. of AIR POLLUTION, 2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS, 62706.

ATT: Mr. Keith Conklin - Director.

Dear Sir;

Persuant to my conversation with Mr. Fred Crawford regarding the installation of a wire reclaiming furnace in the City of Chicago, I have enclosed copies of my permit applications which were sent to the City of Chicago, (approved), State of Illinois construction application in triplicate, and old State of Illinois forms which we used a short while back.

Also enclosed are three copies of the drawings which Mr. Crawford said would be required.

The City of Chicago called and said that they have approved the installation pending an emmission test after installation has been completed and bugs have been taken out. The test is written into my contract with the owner of Lake Salvage Company, Inc., for the protection of all concerned.

I do hope that the information enclosed is complete and will meet with the Departments satisfaction.

I was the former owner of Scott Incinerator Company, which was sold to the Basic Engineering Company, Glen Ellyn.

I would also appreciate more permit and data forms for later use, as Mr. Crawfold mailed only enough for this application. Thank you.

Yours very truly,

ENVIRONMENTAL PROTECTION BUENCY
STATE OF ILLINOIS

Wayne W. Saumann - Curiv
Wayne R. Baumann - Owner
P. F. B. Incinerator Company
Rte, 1, Box 251, Genoa City, Wis.53128

\$1974 1974

BECEINED

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Office Use Chie City of Chicago Department of Environmental Control **Engineering Services** Grid No. 402 Address Code Room 500 - 320 N. Clark Street, Chicago, Illinois 60610 Sequence No. S.I.C. -\$.L.U.C.. **Application Date** FORM .C. INSTALLATION PERMIT APPLICATION b. INSTALLATION ADDRESS FOR INCINERATOR CONTROL DEVICE ON CORNER BUILDINGS Permit Date SHOW BOTH ADDRESSES! 4 a. Complete the □ 2 □ 3 NORTH-SOUTH EAST-WEST □ 6 **口** 7 □ 10 □ 8 □ 9 sections indicated d. Owner Address: c. Owner Name: 2527 W. LAKE ST. Chec. LAKE SALVAGE CO. INC e. Prepared by: f. Prepared by: (Name and title) P. F. B. INCINERATOR Co. (Signature) Clayro R. Bu b. Type of Equipment d. Dimenston (LxWxH) (2) c. Make and Model **EQUIPMENT DATA** 6-7" x 6'-6" x 7-6" I.D RECLAIMING FURNACE P.F.R.SP 8001 e. Number of units, capacity g. Auxillary Equipment h. Connected To:
VEFAIR IN PRIMARY CAMBE
CEMPLITTEN AIR - SECONDAR J - 500-800-1200 FORCED DRAFT FAN b. Retention time (sec.) c. Dimensions (LxWxH) d. Settling Velocity (FPS) SETTLING CHAMBER . 35 @ Scrubber 3 PASS-VARIED 33 g. Length of settling path e. Number of units on construction h. Connected To: 18'-4" 5-RUBBUR Make and Model b. Type of Burner, Fuel <u>۲</u> d. Total B.T.U. Input **BURNER DATA** EAS - INCINCIPLIE 2,725,000 e. Number of units, ignition g. CFM Exhausted (Temperature) h. Connected To: PRIMARY 5PARK 180070 SECUNDARY CHMBRS. c. Dimensions (LxW) b. Type of Vent STACKS, VENTS AND d. Dampers **EXHAUST OPENING** 28"I.D. - 32"0.D (QUICKORAFT STACK g. CFM Exhausted (Temperature) e. Number of vents, construction h. Connected To: f. Height above SEE ALLYMBER 7 OF AS IN #7 ft. Grade 40 ft. c. Contact Area b. Flow (Spray, Bubbler, etc.) d. Contact Time (sec.) d LIQUID FLOW D APPROX. 108 Sq. FT. SPRAYS - CONE TYPE CONTINUES e. Composition of Solution g. Flow Rate (GPM) h. Make Up (GPM) 15 @ 30 PSI c. Make and Model b. Type of Fan (Designate Blade) d. Motor Data **FAN DATA** QUICKDRAFT 1900 RPM OPEN XL temp, ^OF. e. Number of fans, construction g. CFM Exhausted @ h. Connected To: 4224 @ 600 5TACK c. Make and Model d. Inlot Area **** b. Type of Cyclone CYCLONE DATA 🗖 common 🗖 split duct 🗖 multicione e. Number of units, construction f. Body Diameter Outlet Diameter g. Body Height High Efficiency h. Connected To: inch ☐ Yes ☐ No c. Amount Collected b. Description of waste PAPER d. Particle size (average) Š TWO VATED WIRE TRANSPORM WASTE DATA +000 Pounds/Day e. Types of Pollutants g. Collection h. Disposition of Collected Waste (SPECIFY) (SPECIFY) 🕱 Particulate 🗀 Aerosol 🗆 Gas🖄Odor In Bins ☐ Scavenger ☐ RE-SALE

4 REMARKS

(CONTROL PLUS LABOR)

36,950

10



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

DATA AND INFORMATION	FOR AGENCY USE ONLY
INCINERATOR	
1. NAME OF OWNER:	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
ALEX SINIKINI	LAKE SALVICE CO. TIME. 4. CITY OF EMISSION SOURCE:
3. STREET ADDRESS OF EMISSION SOURCE:	
25,27 W LAKE ST.	Chicago ILL.
•	
GENERAL INFO	RMATION
5. FLOW DIAGRAM DESIGNATIONS OF INCINERATORS DESCRIBED ON THIS FORM (RIFORM APC-201):	EFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATIONS,
6. DESCRIPTION OF SOURCE OF WASTE: INSULATED WICE - PLANTED WICE - PLANTER MAKER	ASTIC, ROBBIN
PERTAINING TO A SERAP TARD RECLAIMING	PREMARA.
7. MANUFACTURER OF INCINERATOR:	MANUFACTURER CODE
8. MODEL NAME AND NUMBER: 9. FLUE WILLIAMS CHAMPER	SINGLE CHAMBER MODEL CODE
SP SCC/ MULTIPLE CHAMBER	
10. MAXIMUM AMOUNT OF WASTE TO BE INCINERATED:	CAPACITY CODE
11. ESTIMATED DAILY AMOUNT OF WASTE TO BE INCINERATED:	2. C: C: LB/HR PARTICULATE EMISSION FACTOR CODE
	2 c c LB
HEIGHT OF STACK ABOVE GRADE:	CO EMISSION FACTOR CODE
13. HEIGHT OF TALLEST STRUCTURES WITHIN 150 FEET:	2€ FT
14. PRIMARY BURNER USED? X YES NO MAX RATING 1 - 42	PRIMARY BURNER CODE
15. SECONDARY BURNER USED? YES NO MAX RATING 7-6. 4	SECONDARY BURNER CODE
DESCRIPTION OF TYPICAL WAS	
16a. PAPER: Single and and and another as a server b. DRY WOOD:	c. LEATHER, LINOLEUM:
d. RUBBER AND PLASTICS: 50 5. f. 72(ミデン) 3 C % BY WT	# BY WT F. STREET AND FLOOR SWEEPINGS:
g. FATS AND MEAT DRESSING: % BY WT h. GLASS AND CERAMICS:	1. METALS: % BY WT % BY WT
j. LEAVES, GRASS, BRANCHES, VEGETABLES & FRUITS:	. OTHER (SPECIFY): 子見 3 BY NT

				بيري والتنابي				
	OPERATIONAL INFORMATION							
17.	AVERAGE OPERATION TIME OF INCINERATOR:	HRS/DAY	DAYS/WEEK	WKS/YEAR				
18.	PERCENT OF ANNUAL THROUGHPUT: DEC/FEB	% MAR/MAY	Z JUN/AUG	# SEP/NOV	*			
	SPECIAL NOTES .							
19a.	FOR INDUSTRIAL WASTES, COMPLETE COMPONENT AND/ BE GIVEN IN AN EXHIBIT ATTACHED TO THIS APPLIC		INCLUDING SULFUR, CHLORIDE	, ASH, AND MOISTURE CONT	ENT, MUST			
ъ.	THE AGENCY MUST HAVE ON FILE PROOF THAT THE MA 203(e) and 206(b) WHEN BURNING THE WASTE, BOTH			T THE REQUIREMENTS OF RUI	LES			
c.	GAS CLEANING DEVICE? (IF "YES", COMPLETE APO	2-260, ENTITLED "DATA AND) INFORMATION AIR POLLU	TION CONTROL EQUIPMENT")				
d.	IF LOCATED IN COOK COUNTY, SUBMIT ADDITIONAL P	ERMIT APPLICATION PLUS C	OOK COUNTY CONSTRUCTION PE	ERMIT APPLICATION.				

APC-250

City of Chicago Department of Environmental Control Engineering Services

|--|

Office Use Only Leave this area blank

Quadrant	N-S	E-W
Grid No.	Census Tract	I
Address Cod	•	

		462			Addres	s Code
	Roc					
	510	S.L.U.C.	liAir- Data	Sequen	nce No.	
_	3.1.0.	3,1.0,0,	A!	polication Date		
				FORM N.		
	INSTAL	LATION PERMIT APPI	ICATION			r No
	F	OR AN INCINERATOR	WIRE RECLAIMING	b. Installation address — (On corner buildings sho	t Date	
	·····		FURNACE	both addresses)	<u> </u>	
	a. Type of Bidg.	Total Number Apts Total Number of	·	NORTH-SOUTH	EAST-W	IEST
	☑ New ☐ Exist					
	c. Owner's Name:			d. Owner's Address:		
1	LAKE SALV	AGE Co., INC.		2527 W. LA	KE ST. CH	140, ILL
	l e. Applicant Name:	•		f. Applicant Address:		,
<u>.</u>	ALEX	SIMKIN		SAME AS	ABOVE	
•	a. Incinerator:		c. Model and Class:	1	e. Name Plate:	f. Rating: 600
ŀ	☑ New ☐ Reconst.	P.F.B. SPECIAL	5P-8001 II	☑ Inside ☐ Outside		No (5さい・みょう) Lbs./Hr.
•	rate Width:	h. Grate Length:	j. Grate Area:		I. Total Burning Area	1
•	In.		Sq.Ft.	42.5 sq.Ft	42.5	Sq.Ft 33 Lbs/SF/Hr.
2	n.	o. Primary Volume	p. Secondary Volume:	g. Total Volume:	r. Pri. Heat Release:	s, Total Heat Release:
		306 cf	201,3 CF	507. 3 cr	27.7 M	BH/CF / 4.7 MBH/CF
	t. Primary Volume	306	u. Source of			v. Area:
	Total Volume	507.3	Combustion Air — 🛴	DUVERS - OPEN F	RONT	240 sq.F
	a. Type of Waste:	b. Daily Amounts:	c. 🗆 Actual	d. Description of Source:		
3	0	4200 Lbs.	☑ Estimated	SCRAP YA	ARD OPERAT	7012
J	e. Operated	1. Storage and Handling:	BARRELS +	g. Total Heat from waste:	60 7 IN	Sc /ATTU
	6-8 Hrs.	WINE CLIVIAINER	S BATCH FEED	x 36c = 7,	200	SCHATCE B. AV. Heat Value MBH 8500 BTU/LB
	a. Auxiliary Fuel:	b. Type and Make:		c. Ignition:		d. Location:
	Burner No. 1			Spark Pi	ot 🔲 Manua	
	e, Flame Failure Control			1.		g, Rating:
4		☐ Yes ☐ No)	Timer (Max. Time)		Hrs. MBH
, T [n.	j. Type and Make:		k. ignition:	•	L Location
1	Burner No. 2			Spark Pi	lot 🗆 Manua	o. Rating:
	M- Flame Failure Control			, ··•		o. Rating.
<u> </u>		□ Yes □ N	0	Timer (Max. Time)		Hrs. MBI
5	Flow Rate of Combus	J.	1.016 × 46.86	. 416		A
	a. Dimensions:	tion Gases at 1400°P.	3600		b, Velocities:	CF/Sec.
		w 24 DIA			1	
	Flame Port	WIn. L	in. Area	3,142 Sq.Ft.	Flame Port	/ 0 , 4 Ft./Sec
i		w 30 in.L	4 / .		·	75
6	Down-Pass		4. 6 In. Area	/ / · 2 5 sq.Ft.	Down-Pass	Ft./Sec
0			2 (5.17 sa.Ft.	· · · · · · · · · · · · · · · · · · ·	لاً الله الله الله الله الله الله الله ا
	Curtain Wall Port	w 24 In. L	3/ In. Area	5 , / / Sq.Ft.	Curtain Wall Port	Ft./Sec
		20	41.7	8.96 sq.Ft.		4.65 Ft./Sec
	Up-Pass	<u> </u>	43 In. Area	sq.Ft.	Up-Pass	Ft./Sec
	-	w 22 in. L	ココ In. Area	3.36 sq.Ft.	Breeching	/ 2. 3Ft./Sec
H	Breeching (I/s) a. Stack [] Comm		b. Construction:	c. Dimensions: Dia.	28 in. I.D	
7	Height above Grade	• • • •	STEEL REFR. LINED	W In. x L	In. i/s Area	Sq.FtFt./Se
8	a. Spark Arrester:	b. Construction:	- rosp rispan single	c Dimensions:		
"	⊠Yes □ No	5.5 3x3 Mt	3H	WIn. xL (D	la.) 28" In.	хн <u> 36″</u>
9	8.					
	Height of Tailest Bldg.	within 150 Ft.	ఎఠ ′∼ ఆ-"	<u> </u>		(OVER)
FORM	4615-046 (REV. 1-71			-		

11	a. Draft:	b. Natural	⊠ Induced	4225	区 Forced	1500	CFM @	600
.,	c. Dampers:	d. Hor. Silding	6.		f. 🗆 Butterfly		g. Barometric	In. Dia.
	a- Actual: Area under curtain wa	V				Sq. Ft.	b. Actual Velocity	Ft/Sec.
12	C. (Center to Center Dist Length of Horizontal (ance) Gas Travel			4.3	Ft.	d. Actual To Sc.	9.18BCR .35 Sec.
13	a. Calculated (On Basis o Area under curtain wa	f 9 FPS)				Sq. Ft.	b. Maximum Velocity9	Ft/Sec.
	c. Calculated Length of I	forizontal Gas Travel			18.34	Ft.	d. Minimum 72 Sc. Retention Time	
	Overlaps:				·····	<u></u>	<u> </u>	
14	Between the top of the	bridgewall and the bott	om of the curtain w	all				tn.
	Between the bottom o	f the curtain wall and the	e top of paving in the					In.
15		of, Bridge Wall and Curta	in Wall or Baffles Th		4/2-9	- 5 -	6-6	(n.
6	a. Exterior Walls: Red Brick Thickness_		n. Air Space	in.	U.S. Gauge S		No. / 0	Insulation_3 in.
- {		clearance of Incinerato	r; show also clearanc	-				·
:		ional engineer and bear h fications of flue gas wash		polution con	troi devices if u	used.	INCLUDED IN	INCINCRATER
	C. Provide a sequence of d. Provide a copy of the					R	DRAWING # R	
	Provide survey analysis	-		- 3,3(,			ν.	CF 800/
7	f- Complete incinerator of	ontrol form IC for appro	wal of a control devi	ce.				
	·							
	}							,
	•							
	·					,		
	•							
_								
	Title and No. of Drawl	ngs: AS Red	ę. 'd.					
8								
İ								
-	Will there be a charge t	or incineration?	□ Yes Ø No		<u></u>			· · · · · · · · · · · · · · · · · · ·
1	is the waste material g	enerated on site?	Ø.Yes □ No					
I	☐ Primary or ☐	Accessory USE						
_	Remarks:	a twin ce	ll wire	reclas	ming			
	furnace to					rate		
	secondary	chambers,	entering	an in	large	d	Signature: (SEAL)	
	commen ch	Camber 11'	10" Long of	las fl	ame tra	mel		
	+ efficience	y. Is is a	disigned	Te h	andli.	lieth	Prepared by:	
	units but	ming at on	ne Time .	repend	tank or	, the	W.R.Ba	umann.
	types of no	lenake to be	re-clar	medi,			9703. Suc	merstor 60
•	*************************************			Zij	D. 5312	8 0	Pt. 1, Box 251, x	Janea City, Wis





YES NO

EPA-APC-9

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY BUREAU OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD

2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

FOR INFORMATION TELEPHONE 525 7327
(AREA 217)

FOR OFFICE USE ONLY I. D. No. INSTALLATION PERMIT APPLICATION Permit No. FOR INCINERATORS Date Examined ALEX SIMKIIV ADDRESS OF OWNER SALVAGE CO. TWE 2527 W. LAKE ST CHICAGO ILL. SIGNATURE: P. BAUMANN - OWNER - P.F. & INCINERATOR (c ADDRESS OF INSTALLATION: (STREET, CITY, COUNTY, ZIP CODE) As F SAMC SAME AS # OUTSIDE LIMITS IN TINSIDE INCORPORATED LIMITS - CITY NAMED TOWNSHIP DESCRIPTION OR SOURCE OF WASTE: DAILY AMOUNT: S ESTIMATED BTU/LB (AS FIRED) TYPE WASTE: 8000 ACTUAL BASIS OF ESTIMATE: (INDICATE NUMBER UNITS AND SIZE AREA SERVED, INCLUDE FOOD SERVICE AREAS, PURCHASES KE OF INCINERATOR: ۱ODEL NO. (جن جن جن الم RATED CAPACITY 'LB./HR.) SPARK ARRESTER: 5, 5, 3x3 MES'N 600 STORAGE CAPACITY FOR WASTE: BARRELS __ purccons AS CUITECTED AVE NEPA STANDARDS BEEN COMPLIED WITH: AIR APPLIED AS OVERFIRE 10 PRIMARY COMBUSTION CHAMBER 9. VOLUME: EFFECTIVE GRATE AREA: TOTAL HEAT RELEASE: 42.5 306 SECONDARY COMBUSTION CHAMBER 10. FOLUME: MAXIMUM GAS VELOCITY 3.1 32.016 X 44.86 RETENTION TIME OF GAS IN SETTLING C-AMBER 3 1400 CF. . 416 701 MOTUAL 35 MAX 51 TO SCRUDGER **AUXILARY BURNERS** FLAME FAILURE CONTROL 11. TYPE AND FUEL: NUMBER: CAPACITY OF EACH: 2 (2) 800m /en 1,125 m 1/=5 NOIN CHITTE **DAMPERS** QUICKDRAFT HORIZONTAL SLIDING GUILLOTINE BUTTERFLY BAROMETRIC DIA CINCHES) INDUCED GE 4225 13. X INDUCED TORCED Funceio **OVERLAPS** 14. BETWEEN THE TOP OF THE BRIDGEWALL AND BOTTOM OF CURTAIN WALL INCHES BETWEEN THE BOTTOM OF CURTAIN WALL AND TOP PAVING IN FLUE CONNECTION HCHES GAS CLEANING DEVICES 15. TYPESPRAYS -CLIFE TYPE MANUFACTURER EFFICIENCY SCALE 30 PS I./M FIF 17. 1035F CONTACT LOW ENERGY 16. HEIGHT ABOVE GRADE MATERIALS OF CONSTRUCTION INSIDE DIAMETER STEEL - CASTABLE ں ئے HEIGHT NEAREST OBSTRUCTION DISTANCE TO NEAREST OBSTRUCTION 150 17. EXPECTED BATE OF COMPLETION: OcT. 1974 18. PROVIDE DRAWING(S) DIMENSIONED, IN PLAN ELEVATION AND AS MANY SECTIONS AS ARE NECESSARY TO SHOW THE DESIGN, OPERATION AND LOCATION OF THE INCINERATOR INCLUDING STACK AND BREECHING AND AUXILARY GAS CLEANING DEVICES, IF USED, AND FLAME PORT DIMENSIONS. 19. TOTAL INSTALLED COST INCINERATOR SO COST OF GAS CLEANING DEVICES 36,950.00 INCl. TAX RELIEF APPLIED FOR DATE APPLIED FOR: NO. OF TAX FORM:



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

APPLICATION FOR A PERMIT (A) CONSTRUCT — OPERATE					FOR /	AGENCY USE ONLY		
NAME CONS	OF EQUIPMENT TO BE STRUCTED OR OPERATED WIRE RECLA	AINIING FLIC	<u>л (т (</u> в)	DATE	<u></u>			
				· ·				
la.	NAME OF OWNER:		2a. NAME C	F OPERATOR:	EMPLEYER	5 5 5		
	ALEX SIME IN STREET ADDRESS OF OWNER:		LAK	E SAL	OPERATOR:	INC.		
1b.	_							
lc.	2527 IV. LAKE ST.		2c. CITY (F OPERATOR:	LAKE			
				1 C/4 G-				
	STATE OF OWNER:	le. ZIP CODE:	2d. STATE	OF OPERATOR	₹:	2e. ZIP 100E:		
	ILLINOIS		<u> </u>	1-1 M C	1 \$			
3a.	NAME OF CORPORATE DIVISION OR PLANT:		3b. STREET	ADDRESS OF	EMISSION SOURCE:			
	LAKE SALVAGE TO	I. I.N.C.			LAKE ST			
3c.	CITY OF EMISSION SOURCE:	24 LOCATED WITHIN CITY			3f. COUNTY:	3g. ZIP CODE:		
	CHICAGO	LIMITS: YES NO			CCCX			
4.	ALL CORRESPONDENCE TO: (NAME OF INDIVID		5. TELEPHONE NUMBER FOR AGENCY TO CALL: 7. YOUR ID NUMBER FOR THIS APPLICATION: (C)					
6.	ADDRESS FOR CORRESPONDENCE: (CHECK ONL'	ONE) EMISSION SOURCE	7. YOUR I	D NUMBER FO	R THIS APPLICATION: (5 P- 5001		
9.	THE UNDERSIGNED HEREBY MAKES APPLICATION FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBY AFFIXING HIS SIGNATURE HERETO HE FURTHER AUTHORIZED SIGNATURE(S): (D)	BMITTED INFORMATION REFER THER CERTIFIES THAT HE IS	RENCED IN THI AUTHORIZED	S APPLICATI	ON REMAINS TRUE, COR			
	SIGNATURE	DATE	BY SI	GNATURE		3:15		
	TYPED OR PRINTED NAME OF SIGNER	STATOR CO.	TY	PED OR PRIN	TED NAME OF SIGNER			
l	TITLE OF SIGNER	1221162	T	TLE OF SIGN	ER			
(A)	THIS FORM IS TO PROVIDE THE AGENCY WITH ONLY BE USED TO REQUEST ONE TYPE OF PER-				ONSTRUCTED OR OPERATE	D. THIS FORM MAY		
(8)	CLEARLY IDENTIFY THE GENERIC NAME OF THE PERMIT WHICH MAY BE ISSUED PURSUANT TO T	EQUIPMENT TO BE CONSTRUCTION. THIS FO	CTED OR OPER/ DRM MUST BE /	ATED. SUCH ACCOMPANIED	IDENTIFICATION WILL BY THE APPLICABLE AD	APPEAR ON THE DENDA.		
(C)	PROVIDE A MUMBER IN ITEM 7 ABOVE WHICH Y NUMBER WILL BE REFERENCED IN ALL CORRESPOND EXCEED TEN (10) CHARACTERS.	YOU WOULD LIKE THE AGENCY PONDENCE, RELATIVE TO THIS	TO USE FOR S APPLICATION	IDENTIFICAT: N, FROM THIS	ION OF YOUR EQUIPMENT S AGENCY. YOUR IDENT	. YOUR IDENTIFICATION IFICATION NUMBER MUST		
(D)	THIS APPLICATION MUST BE SIGNED IN ACCOU "ALL APPLICATIONS AND SUPPLEMENTS THERE" CONTROL EQUIPMENT, OR THEIR AUTHORIZED A	TO SHALL BE SIGNED BY THE	OWNER AND OF	PERATOR OF T	THE EMISSION SOURCE O	R ATR POLITITION		
	IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.							

9.	A CONSTRUCTION P		SUBMITTED IN <u>DUPLICATE</u> . ISTRUCTION IN COOK COUN	TY OUTSIDE OF THE CORPORATE	LIMITS OF CHICAGO M	HUST BE			
	SUBMITTED IN QUA A CONSTRUCTION F	ERMIT APPLICATION IN ALL	OTHER LOCATIONS MUST B	E SUBMITTED IN TRIPLICATE.					
10.	LOCATED AND DIST ESTABLISHMENTS.	'ANCES TO THE NEAREST RESI	DENCES, LODGINGS, MURS	S TO THE NEAREST BOUNDARY (ING HOMES, HOSPITALS, SCHOOL UBMITTED, INDICATE THE ASSO APPLICATION NO.	HS AND COMMERCIAL AN	EN MAMIFACTURING			
11.	BY THIS PERMIT A EQUIPMENT, AND S	APPLICATION. THE DIAGRAM	SHALL INCLUDE LABELS F OW RATES FOR (1) ALL P	EMISSION SOURCES AND ALL A OR EACH EMISSION SOURCE AND ROCESSING EQUIPMENT, (2) AN SHEETS:) FACH ITEM OF AIR PO	NIJITION CONTROL			
12.	SHALL COMPLETE A	ND SUBMIT THE APPLICABLE	PERMIT APPLICATION FOR	EQUIPMENT IDENTIFIED ON TH MS. THE FLOW DIAGRAM <u>SHALL</u> NT IS EXHAUSTED. IF IT IS	INDICATE THROUGH WH	ICH STACK OR VENT			
13.	3. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, AND THE APPLICANT IS INCORPORATING BY REFERENCE PREVIOUSLY GRANTED INSTALLATION OR CONSTRUCTION PERMITS. HE SHALL COMPLETE FORM APC-210, ENTITLED "DATA AND INFORMATION INCORPORATION BY REFERENCE."								
14.	4. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, AND THE STARTUP OF ANY EMISSION SOURCE DESCRIBED BY THIS APPLICATION PRODUCES AN AIR CONTAMINANT IN EXCESS OF APPLICABLE STANDARDS, THE APPLICANT MAY REQUEST PERMISSION TO EXCEED SUCH STANDARDS BY COMPLETING FORM APC-203, ENTITLED "OPERATION DURING STARTUP."								
	DURING MALFUNCTI	PLICATION FOR AN OPERATIN ONS OR BREAKDOWNS PURSUAN APC-204, ENTITLED "OPERAT	T TO PCB REGS CHAPTE	ICANT IS APPLYING FOR PERMI R 2, RULE 105, THE APPLICAN AND BREAKDOWN."	SSION TO OPERATE AN T MAY REQUEST SUCH P	EMISSION SOURCE ERMISSION BY			
16.	IF THIS IS AN API WITH APPLICABLE F	PLICATION FOR AN OPERATIN REGULATIONS, THE APPLICAN	G PERMIT AND ALL OR ANY T SHALL COMPLETE FORM A	/ PART OF THE PROCESS MUST APC-202, ENTITLED "COMPLIAN	BE CONTROLLED OR MOD CE PROGRAM & PROJECT	IFIED TO COMPLY COMPLETION SCHEDULE."			
17.	IF THIS IS AN APP	PLICATION FOR AN OPERATING		RATION COVERED BY THIS APPL	ICATION REQUIRE AN E	PISODE ACTION			
18.	GOVERNING THE COM	N SOURCE COVERED BY THIS / NTROL OF AIR POLLUTION," / OF THE ENVIRONMENTAL PROT	ADOPTED BY THE FORME <u>R A</u>	IL 14, 1972, IN COMPLIANCE IR POLLUTION CONTROL BOARD YES NO	AITH THE "RULES AND AND CONTINUED EFFEC	REGULATIONS TIVE PURSUANT			
19.	IF THIS IS AN APP POLLUTION CONTROL	PLICATION FOR AN OPERATING BOARD ON OR BEFORE JUNE	PERMIT, WAS THE OPERA	TION THE SUBJECT OF A VARIA	ANCE PETITION FILED N	WITH THE ILLINOIS			
	IF "YES," CITE PO		······································	F BOARD ORDER:					
Mariella	WITH THE APPLICAB	BLE LIMITATIONS OF THE "RU	ILES AND REGULATIONS GO	CTION OF EQUIPMENT OR MODIN VERNING THE CONTROL OF AIR ION 49(c) OF THE ENVIRONMEN	POLITICA " ADOPTED	BY THE CODMED ATD			
		IN DETAIL AND MARK YOUR E							
	TOTAL NUMBER OF P	AGES IN EXHIBIT D:		-					
20.	PARTICULATE MATTE ON THE PLANT OR F	ER. SUL fur Dio xide. Carbon	I MONOXIDE, OXIDES OF N SH ALL INCLUDE ALL EMISS	SHALL SUBMIT AN ESTIMATE (ITROGEN, AND ORGANIC MATER ION SOURCES LOCATED ON THE	AL EMITTED FROM ALL	SOURCES LOCATED			
	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL _	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR			
PARTI MATTE	CULATE R		SULFUR DIOXIDE		NITROGEN OXIDES				
		LB		LB		LB			
ORGAN MATER			CARBON MONOXIDE						
			. Tonoxibe						
21.	WHAT IS THE SIZE	(IN ACRES) OF APPLICANT'S	PREMISES?	LB		·			
22.				MITTED AS PART OF THIS APPE	ICATION DISTORT	BOCO EVENY DAGE			
	AND STATE THE TOT	ALL PURMS, EXHIBITS, AND TAL NUMBER OF PAGES IN THI	S APPLICATION.	MILLED WO LAKE OF 1HT2 YES	ICATION. PLEASE NUM	BER EVERY PAGE			

REPORT OF RESULTS
OF

PARTICULATE EMISSION TESTS
ON

MODEL RCF 8001 INCINERATOR
AT

LAKE SALVAGE CO.
CHICAGO, ILLINOIS
December 2,1975

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REPORT OF RESULTS
OF

PARTICULATE EMISSION TESTS
ON

MODEL RCF 8001 INCINERATOR
AT

LAKE SALVAGE CO.
CHICAGO, ILLINOIS
December 2,1975

SUMMARY OF RESULTS

Particulate emission tests were conducted on the effluents of Model RCF 8001 Incinerator at Lake Salvage Co. , Chicago, Illinois.

Test results determined by sampling from the stack after the scrubber of the incinerator as described in this report, are summarized on the following page.

GENERAL OFFICES: 228 NORTH LA SALLE STREET, CHICAGO, ILLINOIS 60801 . AREA CODE 312 720-0404

DATA SUMMARY

				EMIS	EMISSION CONCENTRATION* GAS EXCESS EMISSION AIR								
TEST	REFUSE CHARGED LB/HR	GRAINS/SCF		GRAINS/SCF AT 12% CO ₂ **		LB PARTICULATE PER 100 LB REFUSE CHARGED		LB PARTICULATE PER 1000 LB GAS		TOTAL EMISSION LB/HR	PPM CO AT 50% EXCESS	%	SMOKE OBSERVATION
		SOLIDS	TOTAL	SOLIDS	TOTAL	SOLIDS	TOTAL	SOLIDS	TOTAL		AIR		
1	600	0.0292	0.0305	0.0876	0.0915	0.3117	0.3267	0.0531	0.0557	1.96	156	. 367	No Visible emissions
2	600	0.0382	0.0394/	0.1066	0.1099	0.4033	0.4150	0.0697	0.0717	2.49	146	338	
3	600 •	0.0300	0.0315	0.0837	0.0879	0.3200	0.3367	0.0545	0.0573	2.02	164	311	ıı
AVE.	600	0.0325	0.0338	0.0926	0.0964	0.3450	0.3595	0.0591	0.0616	2.16	155	338.7	"

^{*}Solids are particulates collected in the probe, cyclone, and on the filter. Total particulates include condensibles and residue from impinger bottles.

^{**}Correction to 12% CO2 resulting from combustion of waste only.

INRODUCTION

On December 2,1975 COMMERCIAL TESTING & ENGINEERING CO., Environmental Testing Division conducted an emission study on Model RCF 8001 Incinerator at Lake Salvage Co., Chicago, Illinois.

PERSONNEL

COMMERCIAL TESTING & ENGINEERING CO. was represented at the tests by Messrs. R. Silloriquez, R. Hessenberger and P. Gaetano. Mr. A. Simkin of Lake Salvage Co. and Messrs. W. Bauman and M. Smith of P.F.B. Incinerator Co. coordinated the tests to fit the operational schedule.

OBJECT

The tests were conducted to determine the particulate emissions from the effluents of Model RCF 8001 Incinerator, burning Type 1 & 2 wires.

STACK TESTING AND ANALYTICAL PROCEDURES

The methods of testing employed were in accordance with the EPA Federal Register "Standards of Performance for New Stationary Sources", Volume 36, Number 247, dated December 23, 1971, and Addendum to Specifications for "Incinerator Testing at Federal Facilities" method.

The testing was conducted by sampling from the incinerator stack, using two EPA sampling trains. The cross-sectional area of each stack was divided into three equal area zones. Velocity pressure head readings (Pitot Traverse) were taken at the center of each zone. Sample points were at the center of each area zone and each point was sampled isokinetically as far as possible.

The effluents drawn through the probe were collected first in a glass cyclone, where particles greater than 5 microns in diameter were retained. Particles greater than 0.3 micron in diameter were collected on a glass fiber filter (MSA type 1106 BH), and the rest of the effluents were bubbled through a glass impinger train containing distilled water. Particles being collected by impaction in the impingers.



ANALYTICAL TECHNIQUES

The filter and any loose particulate from the sample container was diled in the oven and desiccated. It was weighed to a constant weight and the results reported to the nearest 0.1 milligram.

The acetone washings from the probe, cyclone, cyclone flask, and front half of the filter holder were transferred to a tared beaker and evaporated to dryness at ambient temperature and pressure. The washings were then desiccated and weighed to a constant weight. The results were reported to the nearest 0.1 milligram.

Six (6) separate extractions were performed on the organic particulates collected in the impinger solution. Three (5) were performed using, on each occasion, 25 ml of chloroform and three (3) using 25 ml of ethyl other.

The other and chlorosorm extracts were combined and transferred to a tared beaker. The sample was evaporated at about 70 F until no solvent remained. It was desiccated and weighed to a constant weight. The results were reported to the nearest 0.1 milligram. The impinger solution remaining after extraction of the organics was evaporated to drymess on a hot plate and the residue weighed to the nearest 0.1 milligram and reported.

The laboratory determined the amount of moisture absorbed by weighing the spent silica gel to the nearest 0.1 gram and making appropriate calculations. The amount of water so found was added to that condensed in the impingers.

The acctone washings from the back half of the filter holder fritted support, connectors, and the first three (3) Greenburg-Smith impingers was transferred to a tared beaker and evaporated to dryness at ambient temperature and pressure. It was desiccated and weighed to a constant weight. The results were reported to the nearest 0.1 milligram.

GAS ANALYSIS FOR CARBON DIOXIDE, CARBON MONOXIDE, EXCESS AIR, AND DRY MOLECULAR WEIGHT

An integrated gas-sampling train was used for gas analysis. The sample was extracted from a sampling point at low sampling rate to ensure a representative gas sample per test. An integrated gas sample was also taken during the preheating period. The samples were analyzed for its components using a gas chromatograph. Fyrites and Draeger tubes were also used to check the fixed gas composition on the test site.



DISCUSSION

The average test results of particulate emissions from the gas-fired incinerator Model RCF 8001 are as follows:

GRAIN/SCF at 12% CO2

SOLIDS

0.0926

TOTAL (INCLUDING CONDENSIBLES) 0.0964

The incinerator was burning Type 1 & 2 wires at the rate of 600 lb./hr. During the whole testing period, both the primary and secondary burners were operating with the heat input of 450,000 Btu/hr and 2,450,000 Btu/hr respectively.

Three tests were run in one day and all were within the range of isokineticity.

The State of Illinois Air Pollution Control Regulations Rule 203e-4 state: "No person shall cause or allow the emission of particulate matter into the atmosphere from all other new incinerators to exceed 0.10 grains per standard cubic foot of effluent gas corrected to 12 % carbon dioxide."

The average particulate emission results in grains per cubic foot corrected to 12% carbon dioxide are below the allowable limit and is therefore in compliance.

Respectfully submitted:

COMMERCIAL TESTING & ENGINEERING CO. Environmental Testing Division

BERT SILLORIQUEZ

Environmental Chemist

RUSSELL E. BOGER

Manager



GENERAL INFORMATION

Date of Test

Plant Designation

Location

Owner

Effluents from

Object of Test

Tests conducted by

TYPE OF PARTICULATE SAMPLERS USED

- (a) Inside diameter of the sampling nozzle
- (b) Inside diameter of the tube from nozzle to impinger
- (c) Kind of filter or other device used for separating the sampled particulate
- (d) Location of filter (inside or outside of duct)
- (e) Metering device used
- (f) Kind of exhauster used

December 2,1975

LAKE SALVAGE CO.

Chicago, Illinois

Lake Salvage Co.

Model RCF 8001 Incinerator

To determine particulate emission

COMMERCIAL TESTING & ENGINEERING CO.

1/4

1/2

Glass cyclone and flask 'f followed by glass fiber filter and an impinger train.(RAC)

Outside

Rockwell Dry Gas Meter

Vacuum Pump

DESCRIPTIONS, DIMENSIONS, ETC.

Type of dust	Particulates from burning Type 1&2 wires
Cross-sectional area of sampling section	4.28 square feet
General direction of gas flow in duct at sampling station	Vertically upwards
Number of points used for traverse at sampling station	
Pitot Traverse (12
Sampling Traverse	12
Number of particulate samplers used at sampling station	2
Type of velocity-pressure tubes used	Stauscheibe Pitot Tube

TEST DATA & RESULTS

PARTICULATES

J			,	
	Run Number	1	2	3
	Sampling Date	12-2-75	12-2-75	12-2-75
	Sampling Time	11:15-12:15	12:35-1:32	1:45-2:45
	Duration of Run, minutes	60	60	60
	Total Sampling Time, minutes	120	120	120
	Conditions Peculiar to Run	None	None	None
	Barometric Pressure, in. Hg.	29.98	29.98	29.98
	Static Pressure, in. Hg.	-0.02	0.02	-0.02
	System Pressure, in. Hg.	29.96	29.96	29,96
	Pitot Tube Factor	0.802	0.802	0.802
	Metered Gas Volume, ft. ³	73.30	73.50	74.00
	Meter Temperature, °F	52.71	58.25	60.04
	Flue Gas Temperature, ^o F	220	220	220
	Average Orifice Pressure Drop, in. Hg.	0.10	0.10	0.10
	Sample Gas Volume @ STP, ft.3	76.06	75.55	75.80
	Average Velocity Head, in w.g.	0.4096	0.4096	0.4096
	Condensate Collected, ml	60	60	55

TEST DATA & RESULTS

PARTICULATES (continued)

Silica Water Gain, ml	15	20	25
. Total Condensate, ml	75	80	80
Total Velume of Water Vapor @ STP, sef	3.55	3.79	3.79
Total Sample Gas Volume @ STPC, sef	79.61	79.34	79.60
Moisture Content, %	4.47	4.78	4.76
Average Molecular Weight of Gas	28.87	28.87	28.95
Gas Density Ratio	1.0	1.0	1.0
Average Flue Gas Velocity, fpm	2349	2318	2345
Average Flue Gas Velocity @ nozzle, fpm	2493	2485	2493
Average Isokinetic Ratio	106.13	107.21	106.32
Flue Gas Flow Rate, ACFM	10053	9920	10036
. Flue Gas Flow Rate, SCFM	7844	7740	7830
Mass Gas Flow Rate, 1b/hr	35202	34734	35228

SUMMARY: PARTICULATE CONCENTRATION

Run Number	1	. 2	3
Grains/scf, Total	0.0305	0.0394	0.0315
Grains/scf, Solids	0.0292	0.0382	0.0300
Grains/scf at 12% CO ₂ , Total	0.0915	0.1099	0.0879
Grains/scf at 12% CO ₂ , Solids	0.0876	0.1066	0.0837
Lbs/100 lbs Refuse, Total	0.3267	0.4150	0.3367
Lbs/100 lbs Refuse, Solids	0.3117	0.4033	0.3200
Lbs/1000 lbs Gas (Wet Basis), Total	0.0557	0.0717	0.573
Lbs/1000 lbs Gas (Wet Bais), Solids	0.0531	0.0697	0.0545
Total Emission, lbs/hr	1.96	2.49	2.02

STACK GAS COMPOSITION DATA SHEET

COMPANY: LAKE SALVAGE CO, DATE: December 2,1975

LOCATION: Chicago. Illinois OPERATOR: R.S.

TEST NO.	TIME	co ₂	02	СО	N ₂
			% BY VOLUME	- DRY BASIS	·
1 .	11:30-12:10	4.5	16.5	0.0050	79.0
2	12:45-1:20	4.8	16.2	0.0050	79.0
2	1:50- 2:30	4.8	16.0	0.0060	79.5

STACK GAS COMPOSITION DATA SHEET

COMPANY :	LAKE SALVAGE CO.	_ DATE :	December 2,1975
LOCATION:	Chicago, Illinoss	OPERATOR:	R.S.

PRE-HEATING PERIOD BURNERS ONLY

TEST NO.	TIME	co ₂	02	со	N ₂			
120.	·	% BY VOLUME - DRY BASIS						
1	9:00-9:30	0.50	20.0	-	79.5			
2.	9:35-10:00	0.50	20.0	_	79.50			
AVE.	<u>-</u>	0.50	20.0	_	79.5			

PARTICULATE MATTER DATA SHEET

TEST No.	,	1	2	3
FILTERS	A	0.0440	0.0580	0.0451
	В	0.0451	0.0651	0.0468
W A S H I N G S Probe, cyclones, flas filter holder	0.0547	0.0641	0.0554	
WEIGHT PARTICULATES (SOLIDS ONLY)		0.1438	0.1872	0.1473
CONDENSIB	L E S	Talkania (1997) da Bert van Lindschaft (1994) da		
ORGANICS (Extractions)	E belles and	0.0042	0.0038	0.0051
INORGANICS (Evaporation)		0.0021	0.0020	0.0025
TOTAL WEIGHT PARTICULAT (Including Condensible (Gram)	0.1501	0.1930	0.1549	

SYMPOLS USED FOR TEST CALCULATIONS

MSTMOLECULAR WEIGHT OF THE GAS ON WET BASIS

W. VAPOR VOLUME OF WATER AT STP. SCECE

VMS. VOLUME OFGAS SAMPLED STP. SCF

TIPMISORINETIC SAMPLING

UN.GAS VELOCITY IN NOZZLE, FPM

SW.PERCENT MOISTURE IN SAS BY VOL.

TOTAL VOLUME OF GAS SAMPLED STP , STCF

GDR+GAS DENSITY RATIO

US.STACK GASVELOCITYEPS

*CFM+ACTUAL VOLUME FLOW

SCEM+GAS VOI UME FLOW STP

LASSIER, METGHT OF GAS EMITTED

PARTICULATE CONCENTRATION SYMBOLS

GR/SCF.GRAINS/SCF C1

LRSZHR. POUNDS PER HOUR EMISSION

LBS/SCF ON & DRY BASIS, CSR

LBS/SCF ON A WET BASIS+CS

FXPLANATION OF CONSTANTS

李安拉泰拉泰拉泰拉泰拉泰拉泰拉泰拉泰拉泰拉泰拉泰拉泰拉泰拉泰拉

C1 =TF":P./PPESS. STP=530/29.92= 17.71

ROTOF H20 EMATER DENSITY (GRAM/ME)=1.0"
MH20 =MOLECULAR WEIGHT OF WATER= 18
R =IDFAL GAS CONSTANT= 21.83

C2 = (PO H20/MH20) (TEMP/PRESS) R=0.0474 CU, FT/ML

C3 = 85.45 (FT.-LAT/SEC.-LBMOLE-R

C4 = 4x144XPRESS./PIXTEMP.= 10.35 WHERE PJ=3.1414

C5 =DEMSITY OF AIR STP= 0.075 LBS/SCF



	V	ELO	CITY	Y HE	CAD	REA	DINC	5S;	IN.	0F	W.G	
计计计计	经营业	登台标	计计计计	医经验系	经数据	* * * *	***	144	* # #	设设计	特殊教育	* \$

			**	VELOCITY HEAD		The state of the s
4.0	Vsp		<u></u>	test	-I	
•30	•55	<i>₽</i>	.63			
. 36	• 60	.45	.67			
• 37	.6]	. 47				
•45	.67	•42	•65		•	
.45		. 45	.67	 		
.47	•56	. 45	•67			
			**	TEST DATA-EPA		
AVERAGE	SOUARE	POUTE O	FIDP		=	•64
PS7ST/T	ICTERES	SUPE, IN	. 46		·· ····	02
PB+8R0%F	TRIC PR	FSSURE.	IV.HG		=	29.98
PA+SYSTE	M PRESS	PA=PR	+PS+IN+	ig.	=	29.96
TS.//VEG.	TNEET	TEMP. FR				680
CP • PITOT	TUBF FA	CTOR			=	.802
VM·METER	ED GAS	VOLUME,	CF		=	73.20
TMINVEG	TAPTER	TEMP.	₹			512.71
DH. AVEG.	PPESSUR	EDROPM.	IV.HG		=	.10
VIC. VOLUM	E OF CO	NDENSED	WATER	c	=	75
DSTSOUAP	E_NUZZE	FOIAME	TERTINIS	OURE		-0625
0,7074	SAMPLI	NG TIME	, VIN.		=	120
C02+CARR	ON DIOX	TDE + DRY	BASIS		=	•0450
0.5 <u>+0</u> xyeE	N D⊃Y B	4515	ager , war and a first of the State of the S		=	.1650
CO+CAPRO	и монох	IDF DRY	BASIS		=	0000
NZ+NITOO	GEN DRY	BASIS			z	• 7900
AS. AREA	DF SAM	PLTNG 5	ECTION, S	O.FT.		4.28
MN.TOTAL	WEIGHT	OF PAR	TICULATE	S+GRAMS		.1501

```
TEST NO. -- CALCULATIONS DATE OF TEST 2-2-75 COMPANY CHEE FALVAGE
                   TIME TEST WAS CONDUCTED-----
  17.71XVMX (PB+DH) / TM=17.71X 73.20X (29.98+
  VMS.SOF
                                          .10)/512.71 = 76.0
= *0.0474XVIC=0.0474X 75= 3.55
 VW.SCF
                      TV.SCFTTT = VM+VMS= 3.55+ 76.05= 79.61
(VW/V)X100=(3.55/79.61)X100=4.47
 3€W
H20=18XMn=18X .6447
                      = .804
₩2=32X02XMMF=32X .1650X .9553 = 5.044
 CU2=44XCO2XMWF=44X .0450X .9553= 1.892
 N2=28XN2XVWF=28X .7900X .9553 =21.132
 CO = 28 \times CO \times MMC = 28 \times -.0000 \times .9553 = .000
          US, FPS
        =85.45*CPX(DPXTS/PAXMS)=85.45X .802X( .64X 680/29.96X28.87= 39.15
<u>序数成类式感觉完全存的数字存在的信息的变换数比较低级数据处据的数据处理的数据处理处理的现在分类的现在分类的现在分词的现代的现代分词</u>
WUN . FPM
         =10.35XVXT3/0XPAXDS=10.35X 79.61X 630/ 120X29.96X .0625= 2493
I = (U \times I) \times 100 = X(2493/2349.04) = 106.13
ACFM
         =USXASX60=39.15X 4.28X60=10053
=ACFMX530XP/T5X29.92= 10053X530X29.96/ 680X29.92=
 SCF M
                                            7844
"我我就想我我的可以可以我的我就就是我们的我们的我们的我们的我们的我们的我们的我们的我的我的的,我们就会的我的的女孩的。"
                                      35202
 LES/HD
         =0.075X60XGDRXSCFM=0.075X60X1.00X
                                 7844=
 PARTICULATE CUNCENTRATION EMISSIONS
```

CSI=MNX]5.43/VMS= .1501X15.43/ 76.06= .0305 CSZ =0.0014XCSI=0.00914X .0305= .0000944
CS = (CS2XVMS)/V=(.0000044X 76.06)/ 79.61= .0000042
_:S/HP =CS%SCFMX60= .0000042X 7844X60= 1.96
我我会想要你就要你的我们的我们的事情,我们就是我们的我们的我们的我们的我们的我们的
MNEWETGHT OF PARTICULATES WITHOUT CONDENCIBLES - 1438
, PARTICULATE CONCENTRATION EMISSIONS
CS1=MNX15.43/VMS= .1438X15.43/ 76.06= .0292 CS2 = 0.0014XCS1=0.00014X .0292= .0000042
CS = (CS2XVVS)/V=(.0000042X 76.06)/ 79.61= .0000040
LBS/HP =CSXSCFMX60= .0000040X 7844X60= 1.87
■

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	er eller litter er er sicher	" & ' . T T 'T = //		
	POINT VEL	OCTITES	IN FPS	
•55	2.14 (2.15)	•63	38.43	·
.60	36.46	•67	40.76	and the state of t
•61	34.96			
•67	40.76	•65	39.38	
•67	40.76	•67	40.76	
•66	30.84	•67	40.76	
	···			
				Consideration of the second contract of the s
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				The second secon
The state of the s				
				Company of the Control of the Contro
				pour de partir de la colonidad
				•

EXCESS AIR CALCULATIONS

TEST NO. 1

EXCESS AIR RATIO, R =
$$\frac{O_2}{0.266N_2 - O_2}$$

$$= 0.165$$

$$0.266 (0.79) - 0.165$$

$$= 3.67$$

PERCENT EXCESS AIR =
$$3.67 \times 100$$

PPM CO AT 50 % EXCESS AIR = Ppm CO
$$\times$$
 1. + R 1.5

$$= 50 \times 1 + 3.67$$
1.5

PARTICULME CONCELEVATION

Test no. 1

Grains/Sef corrected to 12 % CO_2 = Grains/Sef $\times \frac{12}{CO_2}$ (Waste)

A. SOLIDS CRIM

Grains/Scf =
$$0.0292 \times \frac{12}{4.5-0.5}$$

= 0.0876

B. TOTAL (SOLIDS + CONDENSIBLES)

$$\frac{12}{4.5-0.5}$$

= 0.0915

					THE STATE AND	OF ABYLIES"	TULDE		
			#	VELUUI 网络特殊特殊特殊特殊		READINGS:			
			_		test-	2	•		
• •	-10P-	-DP	- VΔP •59						
• 1⊃ .	. •77								
• 35		.40	-63						
•40	•63	• 45	•67		m see water as a constitution of				
•45	.67	• 42	•65				٠.		
•45	•67	.40	.63			ar ar a talk under elektrica en en egiste elektric			
.47	.65	.42	•65						
			* :	TEST D	ATA-EPA				
AVERAGE	SOUARE	ROUTE O	- Db.				=	.64	
PSISTATIC PRESSURE, IN. HG								02	
PB.HROMETRIC PRESSURE, IN.HG = 29.99								29.99	
P4+SYSTE	M DDESS	••bv=b3	·PS·IN·H	G			=	29.96	
TS, AVEG.	TRIET	TEMP						680	
CP.PITOT	TURF_FA	CTOR					=	.902	
VM·METER!	ED GAS	VOLUME,	OF.				=	73.50	
TH.AVEG.	.TMF)ER	TEXP.	?		**************************************			518.25	
DH. 4VEG.	ppFcSUp	FDPOPM.	IV.HG				=	.10	
AIC * AUT OR	E OF CO	MDENSED	HATER , C	С			· =	8.0	
DS.SOUAFI	E_NUZZĒ	E DIAME	FERTINTS	OUSE			· <u>-</u>	.0625	
O,TOTAL SAMPLING TIME,MIN. = 120									
COSTOARRO		=	•0480						
02.0XYGFN DPY BX\$TS = .1620								.1620	
CO.CAPRON MONOXIDE DRY BASIS =0000								0000	
NZ+NTT00	GEN DRY	BASIS					=	.7900	
ASTAREA	TOF SAM	PETNG SE		=	4.28				

MN.TOTAL WEIGHT OF PARTICULATES.GRAMS

= .1930

```
DATE OF TEST 12-3-75 COMPANY LAKE EALVAGE
                    TIME TEST WAS CONDUCTED -----
  "我你就你会说我我们我们我们的我们的,我们就是我们的,我们的我们的我们的我们的我们的我们的我们的我们的我们的,不是一个
              17.71XVMX(PH+DH)/TM=17.71X 73.50X(29.98+
  = *0.0474XVIC=0.0474X 80= 3.79
 VW.SCF
 (VW/V)X100=(3.79/79.34)X100=4.78
"""安徽等部分各种运动交易的有效企业的各种企业的基础的基础的基础的基础的基础的基础的基础的基础的基础的基础的基础的基础。"""""
                      = .860
  H20=18XMN=18X .0478
--2=32X02X∀₩F=32X .1620X .9522 = 4.936
 CO2=44XCO2XHWF=44X .0480X .9522= 2.0;1
 N2=29XN2XMWF=28X .7900X .9522 =21.063
 CO=28XCOXMMF=28X+.0000X .9522 = .000
         =85.45*CPX(DPX15/PAXMS)=85.45X .802X( .64X 680/29.96X23.87= 38.63
 US.FPS
·教教教育的外教教会会会校教育会证证者的合理证券教育各种的特殊的特殊的教授的特殊的特殊的特殊的特殊的的特殊的特殊的
         =10.35XVXTS/OXPAXDS=10.35X 79.34X 680/ 120X29.96X .0625= 2485
在各种性性的现在分词 医克特氏征 医克特氏征 医克特氏性 医克特氏性 医克特氏性 医克特氏性 医克特氏性 医克特氏性 医克特氏性 医克特氏性 医克特氏氏征 医克特特氏病 医克特特氏病
 I = (UNI/US) \times 100 = X(2485/2317.79) = 107.21
A CF M
         =USXASX60= 38.63X 4.28X60=
                             9920
=ACFMX530XP/TSX29.92=
                        9920X530X29.96/ 680X29.92=
 SCF14
<u>. 我在旅程的特殊原於经院外院教授保护的特殊保护的特殊保持特殊的特殊特别的特殊的特殊特殊的的特殊特殊的特殊的特殊的特殊</u>
         =0.075X6UXGDRXSCFM=0.075X60X1.00X 7740=
 LAS/HD
                                       34734
PARTICULATE CONCENTRATION EMISSIONS
                COMMERCIAL TESTING & ENGINEERING CO.
```

CS1=MNx15.43/VMS= .1930X15.43/ 75.55= .0394 CS2 =0.0014XCS1=0.00014X .0394= .0000056
CS = (C52XVM5)7V=T .0000056X 75.55)/ 79.34= .0000054
LAS/HP =CSXSCFMX60= .0000054X 7740X60= 2.49
· · · · · · · · · · · · · · · · · · ·
MNEWEIGHT OF PARTICULATES WITHOUT CONDENCIBLES= 1872
PARTICULATE CONCENTRATION EMISSIONS
CS1=MMX15.43/VMS= .1872X15.43/ 75.55= .0382 CS2 =0.0014XCS1=0.00014X .0382= .0000055
CS = (CS2XV4S)/V=(.0000055X 75.55)/ 79.34= .0000052
LRS/HP =CSXSCFMX60= .0000052X 7740X60= 2.42
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

	POTNT VE	OCITIES	STATEPS TO				
•59	35.95	•59	35.95				
EO	35.95	•63	38.43	The second to receive the			
.63		-67	40.76				
• 67		•65	39.38				
•67 •65	40.76 39.38	•63 65	38.43				
•05	34.3h	€ Q ⊃	37.36				
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		. =					The state of the s
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### FECESS ALR CALCULATIONS

TEST NO. 2

EXCESS AIR INTIO, R = 
$$\frac{o_2}{0.26\text{GN}_2 - o_2}$$

$$= 0.162$$

$$0.266 (0.79) - 0.162$$

PERCENT EXCESS AIR 
$$= 3.38 \times 100$$

PRM CO AT 50 % ENCESS AIR = 
$$I_{pm}$$
 CO x  $1 + R$ 

$$= 50 \times 1 \div 3.38$$
1.5



### PARTICULAR CONCENTRATION

TEST NO. 2

Grains/Scf corrected to 12 %  $CO_2$  = Grains/Scf  $\times \frac{12}{CO_2}$  (Waste)

A. SOLIDS CALY

Grains/Scf = 0.0382 × 
$$\frac{12}{4.8-0.5}$$

= 0.1066

B. TOTAL (SOLIDS + CONDENSIBLES)

Grains/Scf = 
$$0.0394 \times \frac{12}{4.8 - 0.5}$$

= 0.1099



	VEL	.00	II	Υ	H(	EAD	) B	EΔ	DI	1G3	5 •	ΙN	•0	F	W .	G	
***	特许机	¥⊀	14 1	* * †	* # 1	* * *	각각	다 다	# 4¢ -	<b>≯</b> 4⊁ 4	<b>:</b> #	* *	ታ %	<b>#</b>	计数	작작	¥

			8 A.	VELOCITY HEAD R			
	_		_	test - 3			
β . • 35	VDP .59	<i>ъ₽</i> •35	√∆P •59				
7 .37	• 6 )	.37	•61				
• 45	.67	•45	•67				
• 45	•67	•40	•63		٠.		
• 45	.67	• 45	•67				
•45	.67	.45	•67				
			**	TEST DATA-EPA	METHOD		
AVERAGE S	QUARE	ROUTE OF	DP		=	.64	
PSISTATI	C PRES	SURE, IN	<b>.</b> 46			<b></b> 02	
P8+BROMET	RTC PR	ESSURE,	IV.HG			29.98	
PA+SYSTEM	PrESS	•64=69•	=	29.96			
TS. FVEG.	TNIET	TEMP. , R			=	680	
CP+PTTOTT	HRF FA	CTOR			=	.802	
VM.METEPE	n 645	VOLUME.	)F		=	74.00	
TM. AVEG.	METER	TEMP.	₹		3	520.04	
DH.AVEG.P	PESSUR	FDROPM.	N.HG		=	.10	
C. VOLIJME	OF CO	MDENSED	WATER + CO		=	80	
DS.SQUARE	NOZZL	E DIAME	IER. N.S	OURE		- 0625	
O,TOTAL	SAMPLI	NG TIME	MIN.			120	
CO2.CARRO	и ијох	IDE *DKY	BASIS		=	•0480	
02.0XYGFN	DPY B	ASIS	eristen kirjan agamata — Statistica Arta assemblieria and			•1600	
CO.CARRON	монох	TDF DRY	BASIS		<b>=</b>	0000	
N2.NITOOG	EN DRY	RASIS			=	•7950	
AS, AREA OF SAMPLING SECTION, SQ.FT. = 4.28							
MN.TOTAL	WETGHT	OF PART	TICULATES	-GRAMS	=	•1549	

COMPANY-LAKE SALVAGE TEST NO. 3 -- CALCULATIONS DATE OF TEST 12-2-75 TIME TEST WAS CONDUCTED ----<u>፞፞ቘጜ፟ጜቘቜፙቑቔጜጜ</u>ቑዺኇ፠፟ጜ፟ጜ፟ጜ፟ጜ፟ጜፙዾዾቝቝዄዄዄዄቝዿኯዺጜኯዺጜኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯ 17.71XVMX(PR+DH)/TM=17.71X 74.00X(29.98+ •10)/520·04= 75·8 ጜ፟ዹ፝ኇ፟፟፟፟፟፟፟፟፟፟፟፠፞ቔ፟ዀ፝ዀዀዀዀዀዀዀዀቝቑፙኯኯቑኯኯኯኯፙፙፙኯኯኯኯፙኯኯኯኯኯኯፙኇኇኯቔቑፙቑቑቑቑቝቝቔቔቔ .W.SCF = *0.0474XVIC=0.0474X 80= 3.79*********************** = 79.60 = 79.60  $(VW/V) \times 100 = (3.79/79.60) \times 100 = 4.76$ %W H20=18XMD=18X .0476 = .858 ♥2=32x02X444F=32X .1600X .9524 = 4.876 CO2=44XCO2XVWF=44X .0480X .9524= 2.011 N2=28XN2XMWF=28X .7950X .9524 =21.200 CO=28XCOXMWF=28X-.0000X.9524 = .000GDR=MWT/28.95=28.945/28.95=1.00 =85.45*CPX(DPXTS/PAXMS)=85.45X .802X( .64X 680/29.96X28.94= 39.08 US, FPS <u>፟ቚዄዄጜ፟ፙጜፚ፟ፙጜ፟ቜ፟ጜፙጚጟቑቜቜጟጚኯጟኯቑጙጙቑቑቜዿቚቝቜዾፙቑቑቑለኯኯዺዿቑቖዄጞዾጜኯቜዺዄቔጜዄቘቔቝቝ፟</u> =10.35XVXTS/0XPAXDS=10.35X 79.60X 680/ 120X29.96X .0625= 2493 UN . FPH T=TUNTUSIX100= X( 24937 2344.89) =106.32 =USXASX60= 39.08X 4.28X60= 10036 ACEM 我我我你会我们都我们就我们的我们的我们的的事情和我们的我们的的事情,我们的我们的我们的我们的我们的我们的的事情的 =ACFMX530XP/TSX29.92= 10036X530X29.96/ 680X29.92= 7830 SCFM LRS/HR =0.075X60XGDRXSCFM=0.075X60X1.00X 7830= 35228 *********************************** PARTICULATE CONCENTRATION EMISSIONS COMMERCIAL TESTING & ENGINEERING CO.

Tuly 13, 1981 HECEIVED Sy Levine, Manager RegionUL 17 1981 TD: ID # 03/ 600 EPK השל אל בריב העי אל אל היי KROM: Kerry Keller Date of Investigation: Valv 9 1981 SUBJECT: FACILITY: Lake Salvage Co. -Late St. Chicago IL. 60812 CONTACT/TITLE: Mr. Alex Simkin - Owner FRE-INVESTIGATION STATUS: Workplan __Task Force, A Facility __Viol. (pot. health haz), __Quarterly Report On Program B Violator (Other), L __NESHAPS, D __Toxic Substance Source M Form 2 __Other Maz. Waste Inc., E __Probable Mal'f N __NSPS, F __Non-Traditional, Inv., __Special Inv., P Annual Inspection I Special Request, J Special Hydrocarbons, Q INSPECTION_FINDINGS Emission Violation __Warning Letter TAS Checked Permit Violation
No Violation __To Form 2. Report ___TAS Coded To Quarterly Report Form 177 Flowform Malf'n - Wang On July 9, 1981, of Lake was observed smoke (10-15% opacity), coming x afterburners, in

EPA-90 (Rev. 6/75-20M)

off. He explained that this hygens a couple times a year, and that, he was planning on correcting the problem that afternoon by cleaning off all the burners. The inspection revealed no violations, and since the facility is a sossible hazardous waste Vincinerator, a follow-up ingrection will be made in October. No further action is required at this time.



TO:

Miles Zamco

wish Narayen ECEIVED

SUBJECT: Flag File Changes

SEP 01 1982

IEPA - DAPC - SPFLD

Person	to Conf	tact		<del></del>			<del></del>		_
Please	change	the	flag	file or	the	following	facility,	as	indicated
		Add	to F	lag File	<b>:</b>				
F	- 1			ke 600		luage	co . I	A.C	- -

No known violation exist

cc: Bharat Mathur Region | File Joyce Salefske

DATE: N	lovember	17,198	REC	EIVE	ID #	031	600 E	PK
то:	Sy Levine	, Region	1 Manager !!	2.4 1832	Date of			r 5, 1982
FROM:	KernywKe	leri	IEPA - D	APC - SPE!	.D			
SUBJECT:	FACILITY:	Lake	Salvage W. Lak	Co.				
	ADDRESS:	2527	W. Lak	e 5%.	Chic	290 I	L. 60	612
,	CONTACT/T	TITLE:	1/ex Simk	in-Own	ier	PHONE #: ]	829-	8882
PRE-INVEST	rigation s	STATUS:	•					
Quarte	an Facili rly Repor Report	·	(A) Task Fo (B) On Prog (C) Violato (D) NESHAP (E) Haz. Wa (F) NSPS (G) Misc. H	aste Inc. IC Sources	  	(N) Prob	om or Unan eduction i Levels in	nction l nounced n Chicago Area SE Cook County
INSPECTION	FINDINGS	:						
Emissio Permit No Viol		on	_Warning Let _To Form 2 F _To Quarter]	ter eport ly Report		TAS Chec TAS Code Form 177 Complian Malfunct	d ce Flowfor	m
NARRATIVE:	an ?	Poveme	her 5, 198	12, an	unan			tion was
for	a H	agardos	u Wante	Uncine	nator &	secial P	exid su	tion was the information a attached erator was
Joe Th	rating	ano cinerá	to is,	visible control	led en	inins	were oth an	detected afterfamen
an	da	wet No p	scrufber further a	iction	is regi	uned at	this .	Time.



	1
DATE: NOVEMBER 8,1983	I.D. #: 031 600 EPK
TO: Sy Levine, Region I Manager	Date of Inspection: Oct 14,1983
FROM: Harlish Marayen // (	RECEIVED
SUBJECT: FACILITY: LAKE BALVAGE CO. I	Ne. 10 1933
ADDRESS: 2527. W. LAKE ST	CHICAGO 60612. IEPA-DAPC-SPFLD
CONTACT/TITLE: Alex Sconkin / own	
PRE-INVESTIGATION STATUS:	
<pre> X workplan Quarterly Report (B) On Program Form 2 Other  Other  (C) Violator (D) NESHAPS (F) NSPS (I) A-2 (unc.≥100, (J) Special Reques (M) Toxics/Hazards</pre>	—(R) Random/Non-tradition —(S) HC Chicago —(T) TSP Chicago —(U) A-1 (Act.≥100 t/y) —(V) B Facility (unc.≤100 t/y) Act.≤100) —(W) Multimedia Problems —(X) Service Stations —(Z) Petrochemical Plants
<pre>INSPECTION FINDINGS:</pre>	
Emission ViolationWarning LetterPermit ViolationTo Form 2 ReporTo Quarterly ReXNo ViolationNARRATIVE:	t  \overline{\times_TAS Coded} port  \overline{\times_Form 177}
An invostigation of the above Jacility w	as anducted on October 14, 1983
An envestigation: of the above facility is swearent to workplan requirements.  and provided the necessary information ( burning incoverator the incurrator or  At the line of this imedigation the  Previous imedigations researed the in  The facility has the necessary  The facility has the necessary	eguiped into an afterburner. inconsister was not in operation. converter to be in complaine. ocromos for its operation.

An investigation of the Janlity will be made of a leter date. In determine uts Compliance during operation.

IL 532-0570

	nental Protection Agency 2200	
( Internal Use Only)		ion: October 25, 1984
Facility: LAKE	SALVAGE CO. INC.	SEPK. R/D: 103
	7. W. LAKEST. EMEAGO.	60612
Contact/Title: #	en Simkin/owner	Phone:
PRE-INVESTIGATION STATUS  Workplan  Quarterly Report  MIR  Other	(A)Task Force  (B)On Program  (C)Violator  (D)NESHAPS  (F)NSPS  (I)A-2  (J)Special Request  (M)Asbestos Demolition	(R)Random/Non-Traditional (S)HC Chicago (T)TSP Chicago (U)A-1 (V)B Facility (W)Multi-Media Problems (X)Service Station (Z)Petrochemical Plants
INSPECTION FINDINGS: Emission Violation Permit Violation Violation Violation NO VIOLATION Flag File L 532-1244 APC 421 7/84	CIL To MIR To Quarterly Report Multi-Media Issue Possible LandNoiseWater	TAS Checked  TAS Coded TAS Checked TAS Coded TAS Checked TAS Coded



### ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Division of Air Pollution Control--Field Operations Section

DATE: NOVEMBER 15, 1984	Date of Inspection: OCTOBER 25, 1984
TO: SY LEVINE, REGI 1 Mar	I.D.#: 031 600 EPK
FROM: HARISH NARAYEN SUBJECT: Facility: LAKE SALVAGE	Region: District: 3 140V 26 1864
SUBJECT: Facility: LAKE SALVAGE	Co. IERA-DAPC-SEFLO
	St Chicago, Il. 60612

Augress: 221. W Com Charge, 11. 60612

Contact/Title: Alex Sunkin 1 owner In inspection of the above facility on october 25,1984 persuant -h work plan Injuriements. He step durken Conducted a tour of the plant and provided the necessary information the facility. à metal saluage and suclaiming plant the fainty afirates one wire burning inemeater controlled by an afterburner. During du unestigation du incuerater was operating burning plantic crated wires the oftenbernes was obtained oftenting and There were no visible emissions from the stack of the incurator the Jackty does not have a temperature months on the inconcretor unt to determine afraling temperature of the afterburner. As Alex Simplin was advised on to look with the possibility of installation of a temperature monter on the memerator unt - to measure of the afterburner. of linker agreed - to look with the hatter further Presently the facility is in compliance with JEPA replations and has the necessary periods



## **Environmental Protection Agency**

2200 Churchill Road, Springfield, Illinois 62706

217/782-2113

OPERATING PERMIT

Permit Expiration Date: July 27, 1986

Application No.:

I.D. No.:

Applicant's Designation: 3218875452

Received:

Operation of:

Location:

75020275

031E00EPK

February 24, 1981

Wire Reclaiming Furnace 2527 West Lake Streat

March 15, 1981

Lake Salvage Company, Inc. 2527 West Lake Street Chicago, Illinois 50812

Autantion: Alex Saskin

. Gentlemen:

Parmit is hereby granted to operate the above-referenced equipment subject to standard conditions attached hereto and incorporated herein by reference and the following special condition(s):

 This incinerator was been granted a permit to curn insulation off scrap copper wire at a rate not to exceed 600 pounds per nour of material changed. The incinerator shall be heaten to an operating temperature of 1400°F before charging. Wire insulated with polyvinyl chlorida or asbestos shall not be charged to the incinerator con shall any wire scrap concaining the funing metals tin, zinc, or lead be charged to this incinerator.

If you have any questions concerning this permit, please contact Hiram Patterson at 217/782-2113.

Very truly yours,

Bharat Mathur, P.E.

Ganager, Permit Section

F. M. f. HEP

Division of Air Pollution Control

BM:HMP:01s/2880H,31

cc: Region 1



STATE OF ILLINOIS .
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

OPERATION OF: VIRE RECEASION OF AN OPER (SAME AS 9c ON PAGE 2)		I. D. NO. PERMIT NO. DATE	FOR AGENCY USE ONLY 031 600 EPK 76 03 0275 3-24-81
1a. NAME OF OWNER:  1. IN KE SILVAGE CO THE  1b. STREET ADDRESS OF OWNER:  1c. CITY OF OWNER:	2b. STR	EET ADDRESS OF OPERATOR:  Y OF OPERATOR:	
1d. STATE OF OWNER: 1e. ZIP	CODE: 2d. STA	TE OF OPERATOR:	Ze. ZIP CCCE:
3a. NAME OF CORPORATE DIVISION OR PLANT:	3b. STR		TY: 3g, ZIP CODE:
Carthaga	S: YES NO	C	18 65-12
4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL)  ALL STREET STREET STREET  6. ADDRESS FOR CORRESPONDENCE:  1 OWNER  OPERATOR  E	<u> </u>	LEPHONE NUMBER FOR AGENCY ・ と - デ と コー ・レイナ UR DESIGNATION FOR THIS A ユー エ ビューフ	PPLICATION: (B)
TYPED OR PRINTED NAME OF SIGNER  TITLE OF SIGNER	FORMATION REFERENCED IN FIES THAT HE IS AUTHORIZED BY	THIS APPLICATION REMAINS ED TO EXECUTE THIS APPLIC  SIGNATURE  TYPED OR PRINTED NAME O  TITLE OF SIGNER	TRUE, CORRECT AND CURRENT. ATION.
(,) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL IN  (B) PROVIDE A DESIGNATION IN ITEM 7 ABOVE WHICH YOU WO	OULD LIKE THE AGENCY TO U	JSE FOR IDENTIFICATION OF	
DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE F EXCEED TEN (10) CHARACTERS.  (C) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CO OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZIN OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PE	H PCB REGS., CHAPTER 2, F E SIGNED BY THE OWNER AND SHALL BE ACCOMPANIED BY ORPORATION MUST HAVE ON F IG THE PERSONS SIGNING TH	PART 1, RULE 103(a)(4) OR D OPERATOR OF THE EMISSION EVIDENCE OF AUTHORITY TO FILE WITH THE AGENCY A CE	103(b)(5) WHICH STATES: N SOURCE OR AIR POLLUTION SIGN THE APPLICATION." RTIFIED COPY OF A RESOLUTION

	DATA AND INFORMATION INCORPORATED BY REFERENCE FROM CURRENT OPERATING PERMIT
9a.	APPLICATION NO.: 7 5 5 2 2 7 T
9b.	I.D. NO.: 331633 EP16
9c.	OPERATION OF: WIRE RECLARACE FURNACE
9d.	LOCATION: LAKE SAL YAVE OF INC BIRT WILLARE STUCHULES THE
9e.	PERMIT EXPIRATION DATE: 3/2/ 2 / 1 a 1
9f.	HAS THE OPERATION AS DESCRIBED IN THE REFERENCED OPERATING PERMIT BEEN MODIFIED* AS DEFINED IN RULE 101 OF THE PCB REGS., CHAPTER 2, PART 1? YES NO
9g .	IF "YES" SUBMIT THE APPLICABLE FORMS OR DESCRIBE IN DETAIL THE MODIFICATION OF THE OPERATION.
9h.	DATE THE OPERATION WAS MODIFIED:
10 a.	IF THE OPERATION IS SUBJECT TO A RULE WHOSE EFFECTIVE DATE IS ON OR BEFORE THE DATE OF THIS APPLICATION, IS SUCH OPERATION IN FULL COMPLIANCE WITH ALL SUCH RULES?  YES  NO
10b.	IF "NO", EXPLAIN:
11.	IF YOUR OPERATING PERMIT APPLICATION CONTAINS COMPLIANCE PROGRAM(S), HAS THIS COMPLIANCE PROGRAM BEEN COMPLETED AND HAVE ALL THE PROJECT COMPLETION REPORTS (APC-271) BEEN SUBMITTED?
a.	ARE YOU IN COMPLIANCE WITH ALL CONDITIONS OF ALL REFERENCED PERMITS?
126.	IF "NO", EXPLAIN:
	Whit knowing the

*MODIFICATION: ANY PHYSICAL CHANGE IN, OR CHANGE IN THE METHOD OF OPERATION, OF AN EMISSION SOURCE OR OF AIR POLLUTION CONTROL EQUIPMENT WHICH INCREASES THE AMOUNT OF ANY SPECIFIED AIR CONTAMINANT EMITTED BY SUCH SOURCE OR EQUIPMENT OR WHICH RESULTS IN THE EMISSION OF ANY SPECIFIED AIR CONTAMINANT NOT PREVIOUSLY EMITTED. IT SHALL BE PRESUMED THAT AN INCREASE IN THE USE OF RAW MATERIALS, THE TIME OF OPERATION, OR THE RATE OF PRODUCTION WILL CHANGE THE AMOUNT OF ANY SPECIFIED AIR CONTAMINANT EMITTED. NOTWITHSTANDING ANY OTHER PROVISIONS OF THIS DEFINITION, FOR PURPOSES OF PERMITS ISSUED PURSUANT TO RULE 103, THE AGENCY MAY SPECIFY CONDITIONS UNDER WHICH AN EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT MAY BE OPERATED WITHOUT CAUSING A MODIFICATION AS HEREIN DEFINED, AND NORMAL CYCLICAL VARIATIONS, BEFORE THE DATE OPERATING PERMITS ARE REQUIRED, SHALL NOT BE CONSIDERED MODIFICATIONS. PCB REGS., CHAPTER 2, PART 1, RULE 101.

NOTE: TO INCORPORATE OTHER CONSTRUCTION PERMITS BY REFERENCE, ATTACH A LISTING OF SUCH PERMITS USING THE FORMAT SET FORTH IN ITEM 9 OR APC-210, "DATA AND INFORMATION -- INCORPORATION BY REFERENCE."



217/782-2113

#### OPERATING PERMIT

#### PEPMITTEE

Lake Salvace Co., Inc. Attn: Alex Simkin 2527 W. Lake Street Chicago, Illinois 60612

Application No.: 75020275

Applicant's Designation: 3212876452

I.D. Po.: 023804EPK Dato Received: Parch 25, 1986

Subjects HIPE RECLAIMING FURINGE

Nate Issued: April 25, 1960

Expiration Date: April 11 1187

Location: 2527 N. Lake Street, Chicago, Illinois

Permit is hereby granted to the above-designated Permittee to OPEDATE emission scurce(s) and/or air pollution control equipment consisting of one wire reclaiming furnace with afterburner and Net scrubber as described in the above-referenced application. This Permit is subject to standard conditions attacked hereto and the following special condition(s):

- la. The wire reclaiming furnace feed rate shall not exceed 600 pounds/hour pounds. Thre insulated with polyvinyl chloride or asbestos are any which or scrap containing the furing metals tin, zinc or lead shall not be charged to this furnace.
- b. The afterburner conjustics charber shall be projected to an operative termerature of 14000F before charcing, and this terperature shall be maintained during operation.
- c. The wire reclaiming furnace afterburner shall be occupied with a continuous temperature indicator with strip chart recorder. Fecords of equipment operation and strip charts shall be retained for two years and such records shall be available for inspection by the Agency.
- 2a. Hithin 180 days of the receipt of this operating neurit, the particulate matter concentrations in the effluent stream of the furnace shall be reasured by an approved testing service. These tests shall be conducted, documented, and reported in accordance with 35 III. Adm. Code Parts 200 and 280.



#### Page 2

b. Prior to carrying out these tests, the Pre-Test Procedures of 30 III. Am. Code 283, Subpart B, shall be completed. In particular, the Agency's regional office and the Agency's Source Emission Test Specialist shall be notified a minimum of thirty (30) days prior to the expected date of these tests and further notified a minimum of five (3) working days prior to the test of the exact date, time and place of these tests, to enable the Agency to witness these tests.

Illinois Environmental Protection Agency
Division of Air Pollution Control - Regional Office
The Intercontinental Center
1701 First Avenue
Haywood, Illinois 60153

Illinois Environmental Protection Agency Attn: Source Emission Test Specialist Division of Air Pollution Control Intercentinental Center 1701 First Avenue Maywood, Illinois 60153

- c. Three (3) copies of the Final Report(s) for these tests, in accordance with 25 III. Adm. Code 282, Subparts E, F and G, shall be submitted to the Agency within 16 days after the test results are compiled and finalized prior to or accompanying the operating permit renewal application.
- d. A copy of the Sirrary of Results. General Information, and Conclusions, as contained in the Final Report, shall also be submitted to the Source Emission Test Specialist.

Bharat Hathur, P.E.

Manager, Permit Section
Division of Air Pollution Control

DE 11/AF 11/25 /0032F/1-2 WM

cc: Region 7 W

APPLICATION FOR OPERATING PERMIT REVENUE 217/782-2113

33701 3, 1984

LAME SALMAGE OF THE ATTEMPTOM: ALEX SIMMING SSRT A LAKE RT ORIGINAL

Il clots

IL 60612

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P) HER CHANGED FROM THE DESCRIPTION FILEO RITH THE AGENCY: DR

NO TITLINGS EMISSION MOUNCES OR CONTROL ESUIPMENT DIFFERENT

THE THIS MITCH IS GIVED ABOVE:
THE THE TOTAL SET YOUR BESTRAING RESILT YOU MUST COMPLETE THE APPROPRIATE
FORMS (SEE ENCLOSED "REQUEST FOR PERMIT FORMS" APCZOE) AND APPLY FOR A
TEMERAL KITH AN APC 200 FORM.

IF THE OPERATION HIS BEEN PERMAMENTLY DISCONTINUED OF PREVIOUSLY TO COPPORATED INTO AMOTHER PERMIT, PLEASE ATTACH A LETTER TO THE AGENCY MITARWALLS THIS PERMIT.



749£

ID MUMBER: 031600EPK
APPLICATION NO.: 76020275

T CEPTIFY THAT THE OPICIPAL APPLICATION IMPOPALTION REMAINS TRUE, CUPRECT, AND CURRENT AND THAT I AN AUTHORIZED TO EXECUTE THIS APPLICATION FOR POPATH REMEAND.

X aly Semper

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3-21-86

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SIMKIN

PRESIDENT

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-----FOR AGENCY USE DALY-----

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OC: PEGTUR 103

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CS==(CS2XVVS)/V=( .0000045X-75.80)/-79.60=0000043
235/HP =CSXSCFMX60= .0000043X 7830X60= 2.02
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PARTICULATE CONCENTRATION EMISSIONS
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#### EXCESS AIR CALCULATIONS

TEST NO. 3

EXCESS AIR NATIO, R = 
$$\frac{O_2}{0.26 \Omega_2 - O_2}$$

PPM CO AT 50 % EXCESS AIR = Ppm CO 
$$\times$$
 1.5

$$= 60 \times 1 + 3.11$$

#### PARTICULARE CONCENTRATION

TEST NO. 3

Grains/Scf corrected to 12 %  $CO_2$  = Grains/Scf  $\times \frac{12}{CO_2}$  (Waste)

A. SOLIDS CALY

Grains/Scf = 
$$0.0300 \times \frac{12}{4.8-0.5}$$

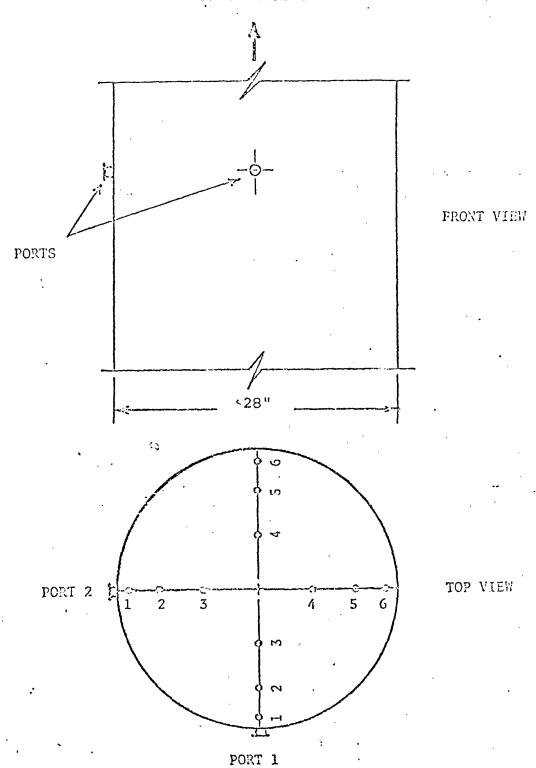
= 0.0837

B. TOTAL (SOLIDS + CONDENSIBLES)

Grains/Scf = 
$$0.0315 \times \frac{12}{4.8 - 0.5}$$

= 0.0879





Measurements from tip of pilot tube for Traverse point:

4 - 19.74"

1 - 1.2" 2 - 4.10" 3 - 8.26"

5 - 23.88" 6 - 26.78"

SAMPLING SECTION DIAGRAM

EPA TEST FORM



#### PARTICULATE MATTER DATA SHEET

TRAVERSE POINT	TIME	STACK GAS TEMPERATURE (°F)	VELOCITY HEAD (IN H ₂ O)	ORIFICE PRESSURE DROP (IN H ₂ 0)	GAS METER VOLUME (FT ³ )	GAS M TEMPER (OF	ATURE	TEMPERATURE OF GAS LEAVING LAST IMPINGER (OF)	PUMP INTAKE VACUUM (IN Hg)
A	11:15	T-P-P12-112-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			•				·
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3	:45	2,20	0.27	1.2		<b>₹</b> ₽	70	- এই	3
- <del>1</del> - 5	:55		0.45	1 1.5		6-0	9:1	·	
	12:05	2,20	<b>Q</b> .你	15		1.60	<u>50  </u>	30	کی
<u></u>	:15		0.93	1.5	178.6	70	60		
	<u> </u>			<del> </del>	36.6				·
B	<del> </del>		<del> </del>	-					
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2 3 4			047	1.6		1/3	<b>৫</b> ১	4D	<del>ن</del>
7			0.92	1.3		60	4.5		
ζ			015	1.5		6.5	(J)	60	હ
4			0.45	1.5	100.9	70	570		ļ
	<u> </u>			-}	56.6				
						<u> </u>			
Total	120 Mm				73.2	-			
Average		220	0.4/63	1.37		57	.71	50	3

Plant Location Test Date Ambient Temperature, ^OF Barometric Pressure, In Hg Moisture Content, % Nozzle Diameter, In Probe Length. Ft

LAKE, SALVAGE
CRICATIO, 16
12-2-75
550
29.90
-
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7

Probe Temperature, OF	250
Filter Holder Temperature, OF	250
C Factor	
Operator · · ·	R.S.
Static Pressure, in. Hg	-0.02
	· · · · · · · · · · · · · · · · · · ·

re, in. Hg	-0.02
Eilter	
Cyclone	
Flack	
inter Collected	

COMMERCIAL TESTING

ENGINEERING

CO.

COMMERCIAL TESTING

EPA TEST FORM



#### PARTICULATE MATTER DATA SHEET

TRAVERSE POINT	TIME .	STACK GAS TEMPERATURE	VELOCITY HEAD (IN H ₂ O)	ORIFICE PRESSURE DROP	GAS METER VOLUME	GAS M TEMPER (°F	ATURE	TEMPERATURE OF GAS LEAVING LAST IMPINGER	PUMP INTAKE VACUUM
•		(°F)		(IN H ₂ 0)	(FT ³ )	INLET	OUTLET	(°F)	(IN Hg)
Ar	1:45								
1	Z-	230	0.35	1.2	2.12.0	6.0	75.0	60	3
Z	2:05		0.37	1.3		65	33"		
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4	2:55	220	0.85	1.5	247.5	6.5	22		
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······································	-		<u> </u>		36.3	1			
				-					
Total	120 Mm				74.0				<u> </u>
Average		220	0.4/58	1.4		60	0.04	60	उ

Plant Location Test Date Ambient Temperature, OF Barometric Pressure, In Hg Moisture Content, % Nozzle Diameter, In Probe Length, Ft

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1/4
.3

Probe Temperature, OF	250
Filter Holder Temperature, OF	250
C Factor	-
Operator	R.S.
Static Pressure, in. Hg	-0.02

111. 116	 
Filter	
Cyclone	
Elask	
inter Collected	

35.

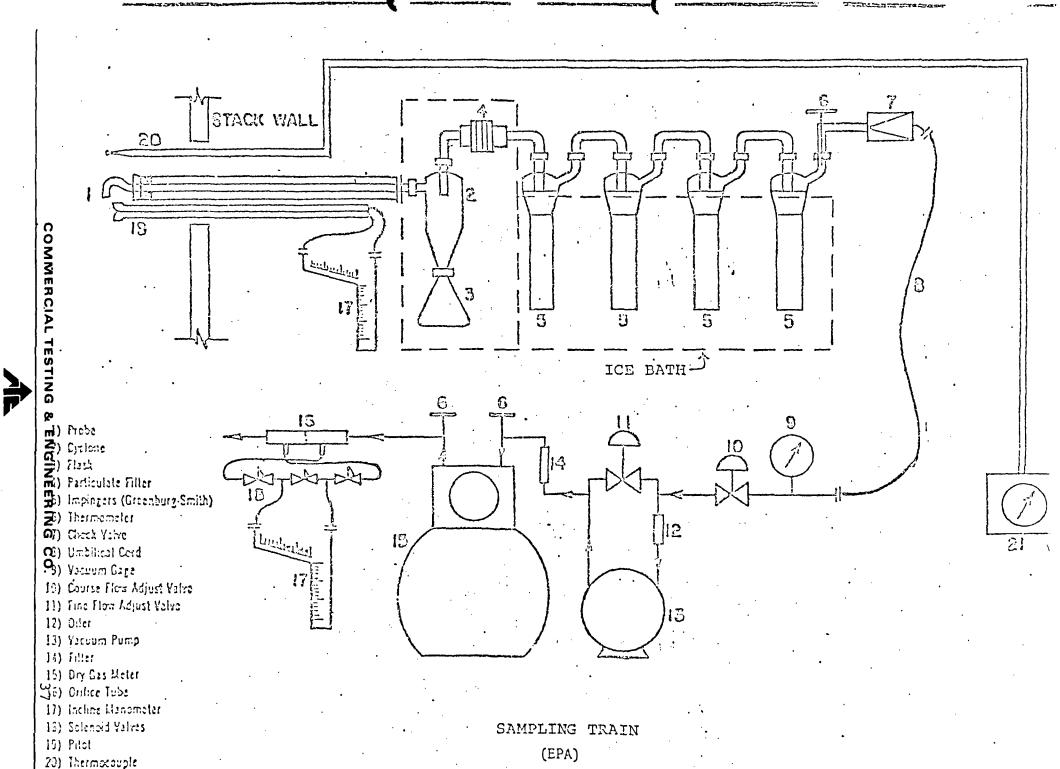
#### PARTICULATE MATTER DATA SHEET

TRAVERSE POINT	TIME	STACK GAS TEMPERATURE (°F)	VELOCITY HEAD (IN H ₂ O)	ORIFICE PRESSURE DROP (IN H ₂ O)	GAS METER VOLUME (FT ³ )	GAS M TEMPER (°F	ATURE	TEMPERATURE OF GAS LEAVING LAST IMPINGER	PUMP INTAKE VACUUM (IN Hg)
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2			0.76	1.3		(00)	1-4		
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9!	<u> </u>		0.72	1.3		G.T	44		
<u>~</u>			0.50	j.3	138.85	(1)	UV	70	3
G		\	0.42	1.3		65	1:5		
	-				36,25				1
Total	120 Min						1		
Average		220	0.4053	1.3		58	25	50	3

· Plant Location Test Date Ambient Temperature, OF Barometric Pressure, In Hg Moisture Content, % Nozzle Diameter, In Probe Length, Ft

rake source
Chilen-1-2, 16
22
12-2-75
90
29.90
74
3

Probe Temper Filter Holde C Factor Operator	250 250 - R.S		
Static Press	-0.02		
	Filter		
	Cyclone		
	Flask		
•	Carer Collected		



March 22. 1976

217/782-2113

#### CERTIFIED MAIL

153513

LAKE SALVAGE CO., INC. 2527 West Lake Atreet Chicago, Illinois 60612

Attention: Mr. Alex Simkin

Reference

Application No. - 0 6 02 0275

- 031 600 BPK I. D. No. 321 387 645

- February 23, 1976 Received

- Wire Re-Claiming Furnace - 2527 W. Lake St. Operation of

Location Chicago, Illinois

- Cook County

#### Gentlemen:

Pursuant to the requirements of the Environmental Protection Act (Act) and the Regulations thereunder the Agency has reviewed the above-referenced permit application and as final action pursuant to Section 39 of the Act hereby denies the permit. The reasons the permit application is denied are below.

The provisions of the PCB Regs., Chapter 2, Rule 203(e)(4) may be violated if the permit were granted.

As required by Section 39 of the Act the following is a statement of specific reasons why the Act and the Regulations cited above might not be met.

The wire reclaiming furnace, is allowed, under Rule 203(e)(4) to emit up tp 0.10 grains/SCF adjusted to 12% CO2 waste only basis. Your application indicates that 0.1067 grains/SCF adjusted to 12% CO2 waste only basis are being emitted. This emission rate is in excess of that allowed by Rule 203(e)(4).

If we can be of any assistance regarding this or other permit related matters, please contact us.

Very truly yours,

Keith J. Conklin, P.E. Manager, Permit Section Division of Air Pollution Control

AMT: dlw

LE NEC 3-2376 Rp

#### STATE OF ILLINOIS

#### ENVIRONMENTAL PROTECTION AGENCY

#### INTER - OFFICE CORRESPONDENCE

DATE:

April 28, 1976

MEMO TO:

Keith J. Conklin

FROM:

Tony Telford T.T.

SUBJECT: Current Wire Incinerator Permit Requests for Operating Permits

I have in my possession an operating permit for Lake Salvage Company, I. D. No. 031 600 EPK, operating permit no. 0 6 02 0275. This wire incinerator will not meet Rule 203(e)(4), nor will it meet Rule 203(a) on the basis of combustibles only as the process weight rate. My question is, how do I deny this permit? In addition, I have on my desk, a permit for Abco Metals Company which has I. D. No. 031 600 EJD, and operating permit no. O 5 10 0034. The Abco Metals Company wire incinerator has stack tests provided by the manufacturer, Peco Company of Connecticut, which shows that the incinerator meets Rule 203(2) (4) but not Rule 203(a), on the basis of combustibles only as the process weight. My question is, how do I deny this permit? to the the son of the grant to

AMT:br

EVERY INTER-OFFICE LETTER SHOULD HAVE ONLY ONE SUBJECT. ALL LETTERS TO BE SIGNED . . . NO SALUTATION OR COMPLIMENTARY CLOSING NECESSARY.

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217/782-2113

May 14, 1976

CERTIFIED MAIL

LAKE SALVAGE CO., INC. 2527 West Lake Street Chicago, Illinois

that involve a additional a

Mr. Alex Simkin Attention:

President

Reference

Application No. **-** 0 6 02 0275

- 031 600 EPK I. D. No. 321 887 645

人名马森英利格勒斯斯 医格尔特氏病病病病病病病病病病病病病

- April 5, 1976 Received

- Wire Reclaiming Furnace Operation of Location - 2527 West Lake Street Chicago, Illinoss

- Cook County

#### Gentlemen:

Pursuant to the requirements of the Environmental Protection Act (Act) and the Regulations thereunder the Agency has reviewed the above-referenced permit application and as final action pursuant to Section 39 of the Act hereby denies the permit. The reasons the permit application is denied are below.

The provisions of the PCB Regs., Chapter 2, Rule 203(e)(4) may be violated if the permit were granted.

As required by Section 39 of the Act the following is a statement of specific reasons why the Act and the Regulations cited above might not be met.

The wire reclaiming furnace, is allowed, under Rule 203(e)(4) to emit up to 0.10 grains/SCF adjusted to 12% CO, waste only basis. Your application indicates that 0.1067 grains/SCF adjusted to 12% CO₂ waste only basis are being emitted. This emission rate is in excess of that allowed by Rule 203(e)(4).

If we can be of any assistance regarding this or other permit related matters, please contact us.

Very truly yours,

Keith J. Conklin, P.E. Manager, Permit Section Division of Air Pollution Control

# ake Salvage Company, Dnc.

DEALERS OF SCRAP IRON & METALS

2527-29 WEST LAKE STREET CHICAGO, ILLINOIS 60612

TA 9-8882

March 31, 1976

Mr. Keith J. Conklin Illinois Environmental Protection Agency 2200 Churchill Road Springfield, Illinois

Reference

Application No. -0 602 0275 I.D. No. -031 600 EFK 321 887 645

Dear Mr. Conklin:

With respect to my conversation with Mr. Tony Talford, I am requesting that you reopen our permit application for our wire reclaiming furnace. This most recent drawing of the furnace enclosed locates the additional burner in the stack which was requested of us by the Chicago Environmental Protection Agency prior to their issuing us an operating permit. This burner was installed after the testing of the furnace by Commercial Testing Company and their report would not reflect the effect it has on emissions, which I am sure are now below the mininum acceptable levels.

Sincerely yours,

Iwand Simber

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APR 05 1970

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL STATE OF ILLINOIS

#### COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 228 NORTH LA SALLE STREET, CHICAGO, ILLINOIS 80801 · AREA CODE 312 728-8434



### RECEIVED

JUN 01 1976

May 27, 1976

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL STATE OF ILLINOIS

Eng'r Tony Talford
Permit Section
Illinois Evironmental Protection Agency
Air Pollution Control Dept.
2200 Churchill Rd.,
Springfield, Illinois 62704

RE: Lake Salvage Application for Permit (Incinerator)

Dear Mr. Talford:

I understand that you handled the permit application of the Lake Salvage Incinerator. It was rejected due to the fact that one test was over by  $0.0066~\rm grain/scf$  at  $12\%~\rm CO_2$  for the solids and by  $0.0099~\rm grain/$  scf at  $12\%~\rm CO_2$  for total (Including condensibles) while the two other tests were in compliance to Rule  $203e-4~\rm of$  the Illinois EPA Rules and Regulations. (Results attached).

You told me during our telephone conversation to seek the advise of Mr. Fred Smith, which I did. Mr. Smith told me to write you a letter of re-consideration in as much as the averaging method for evaluating the incinerator tests is under consideration.

We look forward for your kind help and consideration on this matter.

Thank you so much and hoping to hear from you soon.

Very truly yours;

COMMERCIAL TESTING & ENGINEERING CO. Environmental Testing Division

BERT SILLORIOUEZ

Environmental Chemist

cc: Lake Salvage
Mr. Fred Smith



#### commercial testing & engineering co.

GENERAL OFFICES: 229 NORTH LA SALLE STREET, CHICAGO, ILLINOIS GOBOL . AREA CODE 312 720-8434

#### DATA SUMMARY

			EMISSION CONCENTRATION*								GAS EMISSION	EXCESS AIR	
TEST CHARGED LB/HR		GRAINS/SCF		GRAINS/SCF AT 12% CO ₂ **		LB PARTICULATE PER 100 LB REFUSE CHARGED		LB PARTICULATE PER 1000 LB GAS		TCTAL EMISSION LB/HR	PPM CO AT 50% EXCESS	95	SMOKE OBSERVATION
		SOLIDS	TOTAL	SOLIDS	TOTAL	SOLIDS	TOTAL	SOLIDS	TOTAL		AIR		
1	600	0.0292	0.0305	0.0876	0.0915	0.3117	0.3267	0.0531	0.0557	1.96	156	. 367	No Visible emissions
2	600	0.0382	0.0394	0.1066	0.1099	0.4033	0.4150	0.0697	0.0717	2.49	146	338	н
3	600 •	0.0300	0.0315	0.0837	0.0879	0.3200	0.3367	0.0545	0.0573	2.02	164	311	II.
AVE.	600	0.0325	0.0338	0.0926	0.0964	0.3450	0.3595	0.0591	0.0616	2.16	155	338.7	II ,

^{*}Solids are particulates collected in the probe, cyclone, and on the filter. Total particulates include condensibles and residue from impinger bottles.

^{**}Correction to 12% CO2 resulting from combustion of waste only.

# RECEIVED

JUL 23 1976 THOTECHIC'S AGENCY STATE OF ILLINOIS

Lake Salvage Company, Inc. 2527-29 West Lake Street Chicago, Illinois 60612 July 21, 1976

Mr. Keith J. Conklin, P.E. Illinois Environmental Protection Agency 22 Churchill Road Springfield, Illinois 62706

Dear Mr. Conklin,

I am requesting that our incinerator permit application (No. 0602 0275, ID# 321887645, 031600EPK) be reópened in light of the new decision to average the particulate emission where an averaging system, our emission results would be under the 0.10 grams/SCF adjusted to 12% CO2 waste only. Two of our three tests were well under the excess allowed while only one test surpassed the excess by 0.0066 grams/SCF at 12% CO2 waste only.

> Another factor that would have some bearing on the matter is that one of the secondary burners was not operating (due to malfunction) during the test. This can be confirmed by Burt Silloriquez, 312-493-9100 from the Commercial Testing and Engineering Company. This burner has since been replaced and is in operation.

Also, an additional burner was added in the stack at the request of the Chicago Environmental Protection Agency. After this burner was added, the city examiners re-inspected the unit in operation and issued the operating permit.

Because of the above mentioned factors and the high expense of repeating the emission tests, I ask you to please reconsider our permit application.

Sincerely yours,

Edward E Sunkin

The type of moterial used in the second change (which exceeded the minimum emission standards) is completely of the type which would not be used in our operation, being used only for testing purposes. I his wire is of such a high EES/IIIS waste percentage and such a flow mitallic recovery (807, 60%), it would not be recommendly flowable to change in the unit

(ovER)



#### STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

		FOR	AGENCY USE ONLY		
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APPLICATION FOR A PERMIT (, )	}				
☐ CONSTRUCT ☐ OPERATE	1	PERMIT NO. 26	020275		
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NAME OF EQUIPMENT TO BE		07-	- 23 - 76		
CONSTRUCTED OR OPERATED WIRE RE-CLAIMIN = FURNA	(B)	DATE			
		<del></del>			
la. NAME OF OWNER:	2a. NAME OF C	PERATOR:	···		
LAKE SALVAGE CO., INC.	1	1416			
1b. STREET ADDRESS OF OWNER:		DRESS OF OPERATOR:			
	1	1			
2527 W. LAKE ST.	2c. CITY OF C	PERATOR.			
	1	PERATUR.			
Id. STATE OF OWNER: In. ZIP CODE:	2d. STATE OF		1 20 770 000G		
	1	OPERATOR:	2e. ZIP 000E:		
[ ]LL 606,2	<u> </u>				
3a. NAME OF CORPORATE DIVISION OR PLANT:		DRESS OF EMISSION SOURCE:			
SAME AS ARNIE	1 252	7 W. LAKE	ST.		
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4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL)		NUMBER FOR AGENCY TO CALL:			
ALEX SIMKIN	2.	1 ~ CCC			
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9. AN OPERATING	PERMIT APPLICATION MUST BE	SUBMITTED IN DUBLICATI			
A CONSTRUCTI	ON PERMIT APPLICATION MUST BE ON PERMIT APPLICATION FOR CONTROLOGICATE.  ON PERMIT APPLICATION IN ALL	NSTRUCTION IN COOK COL	UNTY OUTSIDE OF THE CORPORAT		MUST BE
10. THE APPLICAN LOCATED AND ESTABLISHMEN	IT SHALL SUBMIT A PLOT PLAN A DISTANCES TO THE NEAREST RES ITS. IF SUCH A PLOT PLAN AND NUMBER. AGENCY I.D. NO.	ND MAP SHOWING DISTANC IDENCES, LODGINGS, NUF	CES TO THE NEAREST BOUNDARY	OF THE PROPERTY ON W	NO MANUFACTURING
BY THIS PERM EQUIPMENT, A	AT SHALL SUBMIT A PROCESS FLO MIT APPLICATION. THE DIAGRAM AND SHALL SET FORTH MAXIMUM F N SOURCES, AND (4) ALL STACKS	SHALL INCLUDE LABELS LOW RATES FOR (1) ALL	FOR EACH EMISSION SOURCE AN PROCESSING EQUIPMENT, (2) A	IN FACH ITEM OF AIR D	OLITION CONTROL
SHALL COMPLE	SSION SOURCE AND EACH ITEM OF TE AND SUBMIT THE APPLICABLE SOURCE OR ITS RELATED AIR POL	PERMIT APPLICATION FO	RMS. THE FLOW DIAGRAM SHALL	L INDICATE THROUGH WE	HICH STACK OR VEST
3. IF THIS IS A OR CONSTRUCT	N APPLICATION FOR AN OPERATIN ION PERMITS, HE SHALL COMPLE	NG PERMIT, AND THE APPL TE FORM APC-210, ENT	ICANT IS INCORPORATING BY R	EFERENCE PREVIOUSLY ( INCORPORATION BY	GRANTED INSTALLATION REFERENCE."
AN AIR CONTA	N APPLICATION FOR AN OPERATIN MINANT IN EXCESS OF APPLICABI , ENTITLED "OPERATION DURING	LE STANDARDS, THE APPL	RTUP OF ANY EMISSION SOURCE ICANT MAY REQUEST PERMISSIO	DESCRIBED BY THIS AP N TO EXCEED SUCH STA	PLICATION PRODUCES NDARDS BY COMPLETING
DURING MALFU	N APPLICATION FOR AN OPERATION NCTIONS OR BREAKDOWNS PURSUAN ORM APC-204, ENTITLED "OPERA"	NT TO PCB REGS., CHAPT	TER 2, RULE 105, THE APPLICA	ISSION TO OPERATE AN NT MAY REQUEST SUCH	EMISSION SOUPCE PERMISSION BY
6. IF THIS IS AN	N APPLICATION FOR AN OPERATIN BLE REGULATIONS, THE APPLICAN	IG PERMIT AND ALL OR A	MY PART OF THE PROCESS MUST	BE CONTROLLED OR MOD NCE PROGRAM & PROJECT	DIFIED TO COMPLY COMPLETION SCHEDULE."
	A APPLICATION FOR AN OPERATIN	G PERMIT, DOES THE OP			
GOVERNING THE	SSION SOURCE COVERED BY THIS E CONTROL OF AIR POLLUTION;"  (c) OF THE ENVIRONMENTAL PRO	ADOPTED BY THE FORMER	RIL 14, 1972, IN COMPLIANCE AIR POLLUTION CONTROL BOARD YES NO	WITH THE "RULES AND O AND CONTINUED EFFEC	REGULATIONS TIVE PURSUANT
F THIS IS AN POLLUTION CON	A APPLICATION FOR AN OPERATIN	G PERMIT, WAS THE OPE 13, 1972?	RATION THE SUBJECT OF A VARI	IANCE PETITION FILED	WITH THE ILLINOIS
	TE PCB NUMBER(S):			<del></del>	
WITH THE APPL	CANT ON OR BEFORE APRIL 14, ICABLE LIMITATIONS OF THE "R ITROL BOARD AND CONTINUED EFF	ULES AND REGULATIONS (	GOVERNING THE CONTROL OF AIR	POLITION " ADDOTED	DV THE ECOMED ATO
	AIN IN DETAIL AND MARK YOUR				
TOTAL NUMBER	CF PAGES IN EXHIBIT D:				
PARTICULATE N ON THE PLANT	N APPLICATION FOR AN OPERATIN MATTER, SULFUR DIOXIDE, CARBO OR PREMISES. THIS ESTIMATE SOURCES DESCRIBED IN THIS AP	N MONOXIDE, OXIDES OF SHALL INCLUDE ALL EMI	NITROGEN, AND ORGANIC MATER	RIAL EMITTED FROM ALL	SOURCES LOCATED
MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR
RTICULATE TTER	1222	SULFUR DIOXIDE		NITROGEN OXIDES	
RGANIC ATEDIA	LB	CARBON	LB	3	L
ATERIAL" .	LB	MONOXIDE	10		
	LB	1	LB	1	

APC-200



# STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

· · · · · · · · · · · · · · · · · · ·			
		FOR AGENCY U	SE ONLY
DATA AND INFORMATION	}		
INCORPORATION BY REFERENCE			
THEORY OF ALL EXCITE			
1. NAME OF OWNER:	T 2 NAME OF CORPORATE OF		
LAKE SALVAGE CO., INC.  3. STREET ADDRESS OF EMISSION SOURCE:	2. NAME OF CORPORATE D	JIVISION OR PLANT (IF	DIFFERENT FROM OWNER):
	4. CITY OF EMISSION SO		
5. IDENTIFICATION NUMBER: 321 ST7 LYJ	CHICAGO		<del></del>
221 331 213			
6a. APPLICATION NUMBER:	b. IDENTIFICATION ON F		
CONSTRUCTION DOPERATION OF WIRE RECLAIMING FURNACE	N3 F2 X 1/K/A	CU 1 N & - 3 (17870)	37151)
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CO			
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA &	INFORMATION WHICH IS NO LO	<u> </u>	
			AND CONTESTS.
7a. APPLICATION NUMBER:	b. IDENTIFICATION ON F	LOW DIAGRAM:	
C. CONSTRUCTION OPERATION OF			
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CO	ORRECT, CURRENT & COMPLETE?	YES	
e. IF "NO, "SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA &	INFORMATION WHICH IS NO LO	NGER TRUE, CORRECT, C	URRENT AND COMPLETE.
			***************************************
8a. APPLICATION NUMBER:	b. IDENTIFICATION ON F	LOW DIAGRAM:	<del></del>
c. CONSTRUCTION OPERATION			
ofOPERATION			
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CO	DRRECT, CURRENT & COMPLETE?	☐ YES	□ NO
e. IF "NO, "SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA &	INFORMATION WHICH IS NO LO	NGER TRUE, CORRECT, CL	JRRENT AND COMPLETE.
•			
9a. APPLICATION NUMBER:	b. IDENTIFICATION ON F	LOW DIAGRAM:	
.c. CONSTRUCTION OPERATION			
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CO	DRRECT, CURRENT & COMPLETE?	☐ YES	□ NO
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA &	INFORMATION WHICH IS NO LO	NGER TRUE, CORRECT, C	URRENT AND COMPLETE.

### ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

2200 Churchill Road



Springfield, Illinois 62706

Dr. Richard H. Briceland, Director

AUGUST 11, 197

PERMIT EXPIRATION DATE 07-23-31

LAKE SALVAGE OF INC 2527 W LAKE ST CHICAGO, IL.

60612

ATTENTION - ALEY SINKIE

REPERENCE

APPLICATION NO. - 06020273

10 NUMBER - 031600EPK

321 817545

RECEIVED - 07-23-76

CPERATION OF - SIRE RE-CLAIMING FURNAGE

LOCATION - 2527 W LAKE ST

CHICAGE CCEK

GENTLEMEN:

PERMIT IS MERESY GRANTED TO CPERATE THE ACCVETREFERENCED EQUIPMENT.

THIS PERMIT ID SUBJECT TO THE FOLLOWING CO BUTTO H:

1. STANGARD COMULTIONS ATTACHED HERETO AND INCORMERATED FEREIN BY REFERENCE.

VERY TRULY YOURS.

KRITH J. CONKLIN, P.E. MANAGER, PERMIT SECTION CONTROL CIVISION OF AIR POLLUTION CONTROL

Tr.A

Chi DEC

J



1-

		221/00 CDV
DATE:	November 10, 1980	RECEIVED ID#: 03/ 600 EPK
TO:	Sy Levine, IEPA-DAPC Region 1 Manage	NOV 171980
FROM	Wkerry Keller	(Service)
SUBJECT:	Facility: Lake Salvage Co. I	-nc.
	Address: 2527 W. Lake St.	
	Person Contacted & Title: Mr. Alex	Simtin-Owner
	Date & Basis of Investigation: Octobe	r 30, 1980 - Inspection
	Potential 100 T/Y	Quarterly Report Other (Explain)

Emissions (List sources & calculations, Actual & Allowable, #/hr, T/Y):

Disposition: Form 177 Trs Checked Trs Coded Warning Letter

Quarterly Report No violations & Facility has all necessary permits

Comments: On October 30, 1980 an unannoused inspection was conducted of Lake Salvace Co. This facility operates a scrap metal salvace operation which operates a wire reclaiming furnace. This which operates a wire reclaiming furnace. This which four after burners and a wet scrubble. On with four after burners and a wet scrubble. On the day of the inspection the a incinerator the day of the inspection the a incinerator was in operation and there were no visible was in operation and there were no further action emission or detectable orders. No further action

	331 100 EPK
DATE:	February 19, 1981
TO:	Sy Levine, IEPA-DAPC Region 1 Manager SEC 95 1301
FROM.	Kerry Keller
SUBJECT!	Facility: Lake Salvage
	Address: 2527 W. Lake St. Chicago Ill. 608/2
	Person Contacted & Title: Mr. allex Simbon - Owner
	Date & Basis of Investigation: Tehrnary 1/ 1981 - Snanection
	Potential 100 T/Y TAS Update (Quarterly Report Other (Explain)
	Emissions (List sources & calculations, Actual & Allowable, #/hr, T/Y):

Disposition: Form 177 _TAS Checked _TAS Coded _Warning Letter _Quarterly Report _No violations & Facility has all necessary permits

Comments: On February /9, /98/ an unannoyced inspection was foodbacked of Lake Salvage.

This facility operates a write bruning incinerator.

On the day of the inspection (the incinerator was in operation. Observations incinerator was in operation. Observations were made for approximately 30 minutes.

During that time no visible emissions were observed. This is the only source were observed. This is the only source at this facility and no further action is required at this facility and no further action



(312)345-9780

CERTIFIED MAIL

JUM 2 & 1837

12277713070---

COMPLIANCE INQUIRY LETTER

June 25, 1987

Mr. Alex Simkin 6531 N. Sacramento Avenue Chicago, Illinois 60612

Re: Wire Reclaiming Furnace located at Lake Salvage

Co., Inc.

Dear Mr. Simkin:

On June 8, 1987, the Agency informed you by letter of the confirmed results of the chemical analysis of an ash sample which was collected from your incinerator in April, 1987. Those results indicated high levels of 2, 3, 7, 8 - TCDD equivalent concentrations (TEFs).

In its letter of June 8, the Agency made several requests of you as owner and former operator of Lake Salvage Co., Inc. Subsequently, you orally assured the Agency's attorney, Bobella Glatz, that you were complying with these requests on a continuing basis. This letter reiterates those requests and we expect that you are still complying with those requests.

However, the Agency now additionally must inform you of apparent non-compliance with the requirements of Ill. Rev. Stat., Ch. 111½, pars. 1009(a) and 1009(b) and 35 Ill. Adm. Code 201.141. The apparent violations, based on information obtained as a result of the ash sampling conducted at your incinerator in April, 1987, are as follows:

#### Ill. Rev. Stat., Ch. 111½, par. 1009(a):

No person shall:

Cause or threaten or allow the discharge or emission of any contaminant into the environment in any State so as to cause or tend to cause air pollution in Illinois, either alone or in combination with contaminants from other sources, or so as to violate regulations or standards adopted by the Board under this Act;

Lake Salvage

## TRIANGLE LABORATORIES, INC. PCDD/PCDF ANALYSIS

(4)

ANALYST SP FILE # M870985
DATE 5/15/87 CONCAL # M870982
SAMPLE WEIGHT 10.00 TLI # 8701368
SAMPLE ID WRI-4A DILUTED

=====		========	========	.========	:======	
	CONC. (ppb)	NUMBER	DL	EMPC	RATIO	RT
	17.50				0.79	26.19
D	32.45	6			0.78	
D	46.53				0.61	32.18
D	219.01	4			0.59	
	41.88				1.26	36.49
CDD	88.34				1.29	36.57
	85.06				1.29	37.2 <b>5</b>
	591.74	7			1.27	
					1.01	43.38
DD		2	•		1.02	•
_					0.91	49.50
					0. <b>93</b>	25.38
		. 11			0.82	
						31.51
		10			0.70	
			0.013		1.00	
	•••		0.013		1.00	
					1.26	36.39
					1.42	37.47
DF>7		9				
						42.10
						44.14
		4				
77	6698.99				0.78	49.54
	D D D CDD CDD DD DD DD DD DD DD DD DD DD	17.50 D 32.45 D 46.53 D 219.01 CDD 41.88 CDD 88.34 CDD 85.06 DD 591.74 pCDD 689.12 DD 1091.87 1638.45 7 2830.23 F 7 1419.94 F 7 1042.83	17.50 D 32.45 6 D 46.53 D 219.01 4 CDD 41.88 CDD 85.06 DD 591.74 7 pCDD 689.12 DD 1091.87 2 1638.45 7 853.66 F/7 2830.23 11 F/7 1419.94 F/7 1042.83 F/7 6863.80 10 CDF # ND CDF # ND CDF # ND CDF # ND CDF 459.60 0F7 4809.90 9 pCDF/7 1403.75 pCDF/7 1599.79 0F/7 4673.21 4	17.50 D 32.45 D 46.53 D 219.01 CDD 41.88 CDD 85.06 DD 591.74 CDD 689.12 DD 1091.87 CDD 1091.87 CD 853.66 F/7 2830.23 F/7 1419.94 F/7 1042.83 F/7 6863.80 CDF # ND 0.013 CDF # ND 0.013 CDF 613.37 CDF 459.60 DF 4809.90 DF 7 4809.90 DF 7 4673.21 4	17.50 D 32.45 D 46.53 D 219.01 CDD 41.88 CDD 85.06 DD 591.74 PCDD 689.12 DD 1091.87 1638.45 P 853.66 F/7 2830.23 F P/ 1419.94 F/7 1042.83 F/7 6863.80 CDF # ND 0.013 CDF # ND 0.013 CDF 459.60 DF 459.60 DF 4809.90 DF 7 4809.90 DF 7 4673.21 4	17.50 D 32.45 D 46.53 D 219.01 D 219.01 D 88.34 D 1.26 DD 88.34 DD 591.74 DD 1091.87 DD

#### SURROGATE RESULTS SURCLARY

	=======================================		=======================================	*********
NAME	CONC. (ppb)	% RECOVERY	RATIO	RT
13C12-TCDF	2.57 2.63	128.3 131.4	0.74	25.38 26.19
37C1-TCDD 13C12-HxCDF	6.60	329.8	0.02	3 <b>5</b> . 48

#### INTERNAL STANDARDS RECOVERY RESULTS

	-			
HANE	CONC. (ppb)	% RECOVERY	RATIO	RT
2378-13C12-TCDD	1 20	59.8	0.83	26. 18
13C12-PCDD	1.20 0.86	43.1	0.83	32.18
13C12-HxCDD	1.76	87.9	1.10	36.56
13C12-HpCDD	1.89	94.4	1.09	43.38
13C12-OCDD	2.16	53.9	1.00	49.50

## Lake Salvage

### TRIANGLE LABORATORIES, INC 2,3,7,8-TCDD/TCDF AWALYSIS

ABALYST	JAJ	FILE #	<b>M870999</b>
DATE	5-13-87	CONCAL #	N870993
SAMPLE VEIGHT	10.00	TLI #	8701368
SAMPLE ID	WDI AA		

VANE	COMC (ng/g)	DL	RATIO	RT
2378-TCDF	1928.77		0.798	18.56
2378-TCDD	19.83		0.931	16.10

#### SURROGATE RESULTS SUMMARY

HAME	COMC (ng/g)	% RECOVERY	RATIO	RT
13C12-TCDF 37C1-TCDD	2.17 3.93	108.64 196.47	0.860	18.55 16.09

#### INTERNAL STANDARDS RECOVERY RESULTS

	=======================================		*******	:=====
TAKE		% RECOVERY	RATIO	RT
2378-13C12-TCDD	1.12	56.01	0.842	16.08

# Lake Salvas TRIANGLE LABORATORIES, INC. PCDD/PCDF ANALYSIS

ANALYST FILE # MDC M871720 DATE CONCAL # 7-11-87 M871712 SAMPLE WEIGHT 1.00 TLI # 8701425 SAMPLE ID WRI-4-B-ASH

=======================================			============	2222222	*****	2222222:
NAME	AMT (ng/g)	NUMBER	DL	BMPC	RATIO	RT
2378-TCDD	26.40				0.89	25.21
TOTAL TCDD	109.89	7			0.78	•
12378-PCDD	60.55				0.61	30.13
TOTAL PCDD	415.47	9			0.68	
123478-HxCDD	92.03				1.31	36.48
123678-HxCDD	202.96				1.29	36.56
123789-HxCDD	192.20				1.27	37.23
TOTAL HXCDD	1349.82	6			1.26	
1234678-HpCDD	1284.54				1.02	42.41
TOTAL HPCDD	1956.40	2			1.02	
OCDD	3553.56				0.89	47.35
2378-TCD <b>F</b>	2162.58				0.92	24.40
TOTAL TCDF	8554.12	12			0.81	
12378-PCDF	2993.75				0.68	28.58
23478-PCDF	2216.25				0.69	29.47
TOTAL PCDF	11492.84	13			0.66	
123478-HxCDF	3981.07				1.55	35.41
123678-HxCDF	ND		0.045		1.00	<b>#VALUB</b> 1
234678-HxCDF	1366.86				1.25	36.37
123789-HxCDF	1099.67				1.22	37.45
TOTAL HXCDF	7799.58	10			1.19	
1234678-HpCDF	3198.24				0.97	41.13
1234789-HpCDF	3544.35				0.96	43.17
TOTAL HPCDF	10014.32	4			0.97	
OCDF	17466.90				0.92	47.41

#### SURROGATE RESULTS SUNDIARY

===========	**********		2222222	1222233222
NAMB	ANT (ng/g)	% RECOVERY	RATIO	RT
13C12-TCDF	20.35	101.7	0.75	24.40
37C1-TCDD	23.28	116.4		25.21
13C12-HxCDF	24.96	124.8	1.08	35.45

#### INTERNAL STANDARDS RECOVERY RESULTS

=======================================		2222222222	*******	*********
FAXB	ANT (ng/g)	% RECOVERY	RATIO	RT
2378-13C12-TCDI	20.05	100.3	0.74	25.26
13C12-PCDD	18.42	92.1	0.62	30.13
13C12-HxCDD	13.38	66.9	1.21	36.55
13C12-HpCDD	19.19	96.0	1.18	42.42
13C12-0CDD	33.03	82.6	0.96	47.35

* Saturated peak

# Lake Sa voie 2,3,7,8-TCDD/TCDF ANALYSIS

ANALYST	mdc	FILE #	M871773
DATE	7-13-87	CONCAL #	M871763
SAMPLE WEIGHT	1.00	TLI #	8701425

SAMPLE ID WRI-4-B-ASH

NAME	CONC (ng/g)	DL	EMPC	RATIO	RT
2378-TCDF 2378-TCDD	2263.55 35.10			0.892 0.783	

#### SURROGATE RESULTS SUMMARY

NAME	CONC (ng/g)	% RECOVERY	RATIO	RT
13C12-TCDF	21.28	106.42	0.789	15.16
37C1-TCDD	22.76	113.78		13.09

#### IMMERNAL STANDARDS RECOVERY RESULTS

NAME	CONC (ng/g)	% RECOVERY	RATIO	RT
2378-13C12-TCDD	18.96	94.80	0.822	13.08

#### TRIANGLE LABORATORIES, INC.

Lake Salvage Ash Strage

ANALYST MDC

FILE # M871721 CONCAL # M871712 TLI # 8701425 area DATE 7-11-87 SAMPLE WEIGHT 5.11

SAMPLE ID WRI-4-GRD

	=======================================					
NAMB	AMT (ng/g)	NUMBER	DL	EMPC	RATIO	RT
2378-TCDD	0.09				0.88	25.20
TOTAL TCDD	0.81	5			0.78	
12378-PCDD	0.25				0.65	30.12
TOTAL PCDD	2.68	7			0.66	
123478-HxCDD	0.32				1.16	36.48
123678-HxCDD	0.88			•	1.32	36.55
123789-HxCDD	1.04			•	1.28	37.22
TOTAL HxCDD	8.51	6			1.26	
1234678-HpCDD	9.59				1.02	42.41
TOTAL HPCDD	17.35	2			1.05	-
OCDD	28.79				0.84	47.26
2378-TCDF	5.57				0.75	24.38
TOTAL TCDF	16.88	11			0.76	
12378-PCDF	3.69				0.65	28.52
23478-PCDF	2.80				0.60	29.46
TOTAL PCDF	19.23	9			0.64	
123478-HxCDF	12.17				1.26	35.41
123678-HxCDF	3.88				1.25	35.51
234678-HxCDF	4.24				1.18	
123789-HxCDF	0.61				1.19	37.43
TOTAL HXCDF	34.83	10			1.25	
1234678-HpCDF	26.97				1.03	41.13
1234789-HpCDF	6.56				0.96	43.17
TOTAL HPCDF	44.99	4			1.02	<del>-</del> -
OCDF	67.79	-			0.90	47.38
=	<del>-</del> '					

#### SURROGATE RESULTS SUKKARY

NAMB	AMT (ng/g)	% RECOVERY	RATIO	RT
13C12-TCDF	3.66	93.4	0.77	24.36
37C1-TCDD	3.22	82.2		25. 19
13C12-HxCDF	3.76	96.0	1.17	35.42

#### INTERNAL STANDARDS RECOVERY RESULTS

**=====================================						
HAKB A	UNT (ng/g)	% RECOVERY	RATIO	RT		
2378-13C12-TCDD	3.87	98.8	0.93	25.18		
13C12-PCDD	4.01	102.6	0.67	30.12		
13C12-HxCDD	2.81	71.9	1.26	36.54		
13C12-HpCDD	3.29	84.1	0.98	42.40		
13C12-0CDD	6.59	84.1	0.94	47.26		

#### TRIANGLE LABORATORIES, INC

2,3,7,8-TCDD/TCDF ANALYSIS

Lake Salvage?

ANALYST mdc FILE # M871793
DATE 7-13-87 CONCAL # M871763
SAMPLE WEIGHT 5.11 TLI # 8701425

SAMPLE ID WRI-4-GRD

		:========	=======================================	=======	::::::::	=
NAME	CONC (ng/g)	DL	EMPC	RATIO	RT	
						-
2378-TCDF	2.58			0.741	15.10	
2378-TCDD	0.09			0.796	13.03	

#### SURROGATE RESULTS SUMMARY

NAME	CONC (ng/g)	% RECOVERY	RATIO	RT
13C12-TCDF	3.11	79.58	0.795	15.09
37C1-TCDD	3.79	96.87		13.06

#### INTERNAL STANDARDS RECOVERY RESULTS

NAME	CONC (ng/g)	% RECOVERY	RATIO	RT
2378-13C12-TCDD	3.90	99.55	0.846	13.04

### Case Nanative - 26 Oct 1987

DB-5

TRIANGLE LABORATORIES, INC. PCDD/PCDF ANALYSIS (D)

ANALYST:

DH

FILE NAME: M873320 CONCAL: M873313

DATE:

10/26/87

CASE NO:

SAMPLE ID: RADIAN WRI-4 - Soil RADTAN

SAMPLEWT:

10.26

SAME CENT.	10.20	CASE NO.	MADIAN	السينيا الص
		PROJ NO:	8701648	soil near oily area
		FROO NO.	3731040	_ included fores

NAME	CONC(ppb)	NUMBER	DL	EMPC	RATIO	RT
2378-TCDD	0.169				0.65	28.33
TOTAL TODD	0.699	6			0.76	
12378-PCDD	0.334				0.55	33.52
TOTAL PCDD	3.275	10			0.58	
123478-HxCDD	0.478				1.21	38.42
123678-HXCDD	1.044				1.30	38.49
123789-HXCDD	0.808				1.21	39.17
TOTAL HXCDD	9.165	9			1.23	
1234678-HpCDD	9.603				1.00	43.35
TOTAL HOCOD	16.805	2			1.01	
OCDD	25.342				0.87	48.22
2378-TCDF	30.103				0.75	27.44
TOTAL TCDF	55.998	11			0.74	
12378-PCDF	29.814				0.62	32.25
23478-PCDF	10.195				0.62	33.24
TOTAL PCDF	73.150	11			0.61	
123478-HxCDF	45.253				1.16	37.34
123678-HXCDF	11.552				1.13	
234678-HxCDF	8.225				1.14	
123789-HXCDF	11.501				1.14	39.41
TOTAL HXCDF	89.192	10			1.16	
1234678-HDCDF	51.519	-	_		0.95	42.08
1234789-HDCDF	25.838		•		1.00	44.09
TOTAL HPCDF	105.642	4			0.97	
OCDF	210.880	-			0.92	48.33

#### SURROGATE RECOVERY SUMMARY

NAME	CONC (ppb)	% REC.	RATIO	RT			
					•		
13C12-TCDF	0.82	84.13	0.67	27.44			
37CL-TCDD	0.84	86.18		28.32			
13C12-HxCDF	1.01	103.63	1.05	37.33			

#### INTERNAL STANDARDS RECOVERY SUMMARY

:::::::::::::::::::::::::::::::::::::::		=======================================	:========	222222222222	===
NAME	CONC (ppb)	% REC.	RATIO	RT	
2378-13C12-TCDD	0.64	65.66	0.89	28.32	
13C12-PCDD	1.29	132.35	0.57	33.52	
13C12-HxCDD	0.67	68.74	1.15	38.48	
13C12-HpCDD	0.44	45.14	0.89	43.34	
13C12=0CDD	0.41	21.03	0.80	48.22	

DB-17

TRIANGLE LABORATORIES, INC. 2.3.7.8-TCDD/TCDF ANALYSIS Lake Salvage

ANALYST DATE

mdc 11/3/87 SAMPLE WEIGHT 10.26

FILE # CONCAL # TLI #

M873498 M873496 8701648

SAMPLE ID

WRI-4-501

	222222222222		EMPC		
NAME	CONC (DDb)	DL 	<b>-</b> •	RATIO	RT
2378-TCDF	21.94			0.776	22.56
2378-TCDD	0.22			0.738	20.28

### SURROGATE RESULTS SUMMARY

NAME	CONC (ppb)	* RECOVERY	RATIO	RT
13C12-TCDF	0.82	84.30	0.872	22.54
37C1-TCDD	0.93	95.86		20.29

#### INTERNAL STANDARDS RECOVERY RESULTS

NAME	CONC (ppb)	* RECOVERY	RATIO	RT
2378-13C12-TCDD	0.61	62.39	0.833	20.27

## Ill. Rev. Stat., Ch. 1112, par. 1009(b):

No person shall:

b ... Construct, install or operate any equipment, facility, vehicle, vessel or aircraft capable of causing or contributing to air pollution or designed to prevent air pollution, of any type designated by Board regulations, without a permit granted by the Agency, or in violation.

35 Ill. Adm. Code 201.141 Prohibition of Air Pollution:

No person shall cause or threaten or allow the discharge or emission of any contaminant into the environmental in any State so as, either alone or in combination with contaminants from other sources, to cause or tend to cause air pollution in Illinois, or so as to violate the provisions of this Chapter, or so as to prevent the attainment or maintenance of any applicable ambient air quality standard.

The levels of dioxins and related compounds (furans) found in the ash in your incinerator indicate that your facility has, in the past, burned materials which you were not permitted to burn by the terms of your permits with this Agency. In your last permit with this Agency, Condition 1 stated as follows:

Wire insulated with polyvinyl chloride or asbestos and any wire or scrap containing the fuming metals tin, zinc or lead shall not be charged to this furnace.

Because this permit condition was violated, resulting violations of the Environmental Protection Act and the Regulations of the Illinois Pollution Control Board have occurred. These violations could be the subject of enforcement action by the Agency pursuant to the Illinois Environmental Protection Act, Ill. Rev. Stat., Ch. 111½, par. 1001 et seq.

A pre-enforcement conference will be held at 1701 First Avenue, Maywood, Illinois at 1:00 p.m. on July 14, 1987. The purpose of this conference will be to discuss the reasons for the apparent violations outlined above (including information regarding all materials burned) and to outline any steps which you would initiate to prevent any further recurrence. You should therefore bring such personnel and records to the Conference as will enable complete discussion of the above items. Please confirm your attendance at the conference within seven (7) days from the date of this letter. If you desire to attend such a conference but are unavailable on the scheduled date, please contact this office within seven days.

Also, please submit in writing, within 10 days of the receipt of this letter, your written statement that 1) operation of the incinerator has ceased and will not begin again until a new operating permit has been issued by the Agency for the incinerator; and 2) describing in detail how the incinerator itself and the process area have been secured by you.

Sincerely,

Sy Levine

Regional Supervisor

Field Operations Section

Division of Air Pollution Control

SY:mm

cc: M. Zamco/

T. Sweitzer

B. Glatz

L. Cooper, APC/Enforcement

I.D. File

CIL Book

J. Perino

C. Schien

631 600 EPK

LAKE SALVAGE CO. 2527 W. LAKE STREET CHICAGO, ILLINOIS 60612

JUL 1 t 1997 177A-0470-327UN

July 2, 1987

Illinois Environmental Protection Agency 2200 Churchill Road Springfield, Illinois 62706

Dear Sir:

Per your written request of June 25, 1987, we wish to advise you that-

- Lake Salvage Co. has been shut down since September, 1986 and operation of the incinerator has ceased as of that period;
- (2) The ignition burners and afterburners are being dismantled from the furnace and placed in a locked storage area;
- (3) The front chambers of the furnace are locked; and
- (4) Entrance to the entire business locaton is locked.

I hope this satisfies your requirements.

Very truly yours,

Edward Simkin

Treasurer



217/782-2113

June 10, 1988

Lake Salvage Co.

Attn: Edward Simkin, Treasurer

2527 W. Lake Street Chicago, IL 60612

Application No.:

76020275

I.D. No.:

031600EPK

Operation of:

Wire Reclaiming Furnace

Letter Dated:

July 2, 1987

The Agency hereby acknowledges the receipt of your above-referenced letter and confirms the withdrawal of your operating permit in accordance with your request.

If you have any questions concerning this matter, please contact Betty Ascher at 217/782-2113.

Terry (A. Sweitzer, P.E. Manager, Permit Section

Division of Air Pollution Control

TAS:BEA:jmm/4917H/36

cc: Region 1

RECEIVED SEP 1 1988 IEPA-DLPC

Figure 3-4. Lake Salvage Wire Reclamation Incinerator

From Page No. __

4/5.187 Lake Salvage Company

Manntacturer: RCF Model RCF 8001 - on Mener said unknown, constan design

-7.5 heigh × 15.5 wide × 6.5 long vol = 755.6

2° - 3,5 long × 9 wide × 12,5 vol = 393,75 ft3

- system has four burners all 450,000 BTW/Lr
- Charge rate average was 450 16/load with operation 5 days per week. 600 # max.
- -System is not operating now down since Sept Sh
- Ash was either thrown into trash or sold for
- re claiming
- Stack beg height 35' and I diameter

  The incinerator was a dual sided unit, but
  wire was burned on only one side at a
- The system has a wet serubber that was not used
- Air flow to the system was controlled by lonvers on the front doors only. There did not agreen to be any applificant air intake at the afterburner except for a combastion air for.
- Feeds consisted of heavy cable and house wire no transformers, capacitors or PVC wire was burned.
- Sy, ter was preleated before wire was put in.

To Page N

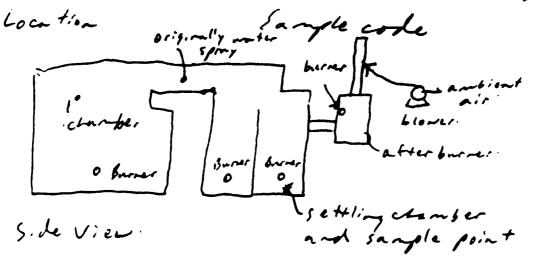
Date

Book No._____

n Page No

- Two transformers, were seen on site. No other scrap was on the site. Tag on the trunsformers, said 11 pp 168 in oil.

- Samples collected included the following:



- The primary chamber and settling chamber burners used only until the wire starts burning

- The former Court

B-10

laus :

1. Patic **No** . ____

#### TABLE 3-1. WIRE USE AND COMPOSITION

Vire Tee	Composition of Wire Insulation and Smalting Materia
Power circuits for use in substations, industrial plants, refineries.	Polyethylene insulation PVC Joshet
Central and signal elecuite for utilities, steel mills, paper mills, shippends, chanteal plants, refrigeration foundries, broweries, municipalities, machine sites.	Flane-retardent polymer insulation and agles mespress jacket. plants, and equipment manufacture, essetzustion
Appliances with temperatures of <105°G in air and 60°C when expected to oil.	PVC insulation mylon jacket
Heaters, evens, dryers, sumlamps and therepoutle apparetus (high voltage products).	silicene-rubber insulation lacquared glass braid jacket
Power electrics up to 5 kV.	n-linked polyethylene extruded semi-conducting material as shield
Signal and traffic systems.	Polyethylene insulation PVG jacket
Mining equipment, power showels, bushet ereses, welding machines, submersible pumps, read equipment, drills, shuttle ears, ereses, and leaders.	Ethylene propylene rubber insulation tenture fiber composition reinforcing braid Hypolen jacket
Beavy duty servicegarages, portable stagelights, heavy tools and equipment.	FVC or SER or EP rubber insulation with jacket (constinues neeprone, SER)
Electric mimore, polichers, making machines, portable applicaces, vacuum elemente, office and demotic equipment.	FVC or SER insulation FVC or neeprene jacket
Lighting elreuits, summys, aispost lighting.	Polyethylene insulation
Industrial and utility plants.	Sthylene propylene rubber FMC jacket
Fano, elecks, lamps, radios, small applianess.	PVC insulation
Small motors and tools.	SSR rubber insulation assertes jushet
Goe in conduit, recovery certal, and hasard locations.	PVC-nylon insulation PVC jacket
Conveyors, portable power equipment, dockeide embles, mobile benne, ett rigs, bettery chargers, crasse, pumpe, clame, assembly lines, poving machines, reck erachers.	EP subbor insulation chlorinated polyethyles jacket
Air conditioning thermostot, commodeter systems.	Thermoplastic or PYC insulation PVC Jacket
Building wire and lighting.	PVC insulation sylon jacket
Svitebbeards, railear equipment.	X-linked chlorosulfonated polyethylene jacks and insulation

Chlorinated Dioxin Compound (abbreviation)	No. of Isomers
Monochlorodibenzo-p-dioxin (Mono-CDD)	2
Dichlorodibenzo-p-dioxin (Di-CDD)	10
Trichlorodibenzo-p-dioxin (Tri-CDO)	14
Tetrachlorodibenzo-p-dioxin (TCDO)	22
Pentachlorodibenzo-p-dioxin (Penta-CDD)	14
Hexachlorodibenzo-p-dioxin (Hexa-CDD)	10
Heptachlorodibenzo-p-dioxin (Hepta-CDD)	2
Octachlorodibenzo-p-dioxin (Octa-CDD)	
TOTAL ISOMERS	75

TABLE 1-2. NOMENCLATURE AND SCHEDULE OF THEORETICAL CHLORINATED FURAN ISOMERS

Chlorinated Furan Compound (abbreviation)	No. of Isomers
Monochlorodibenzofuran (Mono-CDF)	4
Dichlorodibenzofuran (Di-CDF)	16
Trichlorodibenzofuran (Tri-CDF)	28
Tetrachlorodibenzofuran (TCDF)	38
Pentachlorodibenzofuran (Penta-CDF)	28
Hexachlorodibenzofuran (Hexa-CDF)	16
Heptachlorodibenzofuran (Hepta-CDF)	4
Octachlorodibenzofuran (Octa-CDF)	ユ
TOTAL ISOMERS	135

TABLE 1-3. TOXIC EQUIVALENCY FACTORS USED IN 2 ESTIMATING 2378-TCDD EQUIVALENTS

Congener	Toxic Equivalency Factor (Multiplier)
2378-TCDD	1.0
Other TCDD	0.01
12378-PCDD	0.5
Other PCDD	0.005
123478-HxCDD	0.04
123678-HxCDD	0.04
123789-HxCDD	0.04
Other HxCDD	0.0004
1234678-HpCDD	0.001
Other Hepta-CDD	0.00001
Octa-CDD	0
2378-TCDF	0.1
Other TCDF	0.001
12378-PCDF	0.1
23478-PCDF	0.1
Other OCDF	0.001
123478-HxCDF	0.01
123678-HxCDF	0.01
234678-HxCDF	0.01
123789-HxCDF	0.01
Other HxCDF	0.0001
1234678-HpCDF	0.001
1234789-HpCDF	0.001
Other Hepta-CDF	0.00001
Octa-CDF	0

TABLE 4-9. 2378-TCDD TOXIC EQUIVALENT CONCENTRATIONS FOR THE ILLINOIS WRI SOIL SAMPLES

2378-TCDD TOXIC EQUIVALENTS (ng/g) LAKE SALVAGE ELGIN 2378-TCDD EDELHAN ALCO STEEL HIDWEST PIELET ALLIED H I DLAND BROTHERS TOXIC "C" .. D... ASH STOR-INCINER-EQUIVALENTS AGE AREA ATOR AREA **FACTORS** Congener (b) 0.020 0.000 0.169 0.000 0.000 0.120 0.000 2378 - TCDD 1 3.56 1.53 0.005 0.023 0.004 OTHER TCDD 0.01 0.003 0.293 0.008 0.288 0.021 0.000 0.167 12378 PCDD 0.5 0.085 5.34 0.095 2.55 0.230 0.000 0.000 0.080 OTHER PCDD 0.005 0.010 0.483 0.009 0.425 0.015 0.032 0.001 0.040 0.009 0.009 123478-HxCDD 0.04 0.010 0.509 0.009 0.245 0.019 0.021 0.000 0.000 0.042 0.066 123678-HxCDD 0.04 0.028 1.24 0.020 0.871 0.003 0.072 0.021 0.032 0.04 0.020 1.45 0.048 0.985 0.084 0.006 0.106 0.031 123789-HxCDD OTHER HXCDD 0.0004 0.002 0.062 0.002 0.070 0.003 0.006 0.000 0.007 0.002 0.007 0.198 0.216 0.010 0.016 0.001 0.018 0.004 1234678-HpCDD 0.001 0.007 0.000 0.001 0.000 0.000 0.000 0.000 OTHER HPCDD 0.00001 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 OCDD 0 TOTAL PCDD 0 253 2378-TCDF 0.1 0.047 33.5 0.236 2.20 2.19 0.173 0.025 0.233 0.418 0.001 0.007 0.771 0.014 0.175 0,014 0.034 0.023 0.002 0.027 0.022 OTHER TCDF 12378-PCDF 0.1 0.035 34.9 0.250 2.69 2.98 0.202 0.000 0.216 0.243 1.02 0.350 0.000 0.470 0.291 0.1 0.136 25.5 0.244 3.76 23478-PCDF 0.001 0.007 0.724 0.204 of or 0.033 0.022 0.002 0.028 0.013 OTHER PCDF 0.013 0.127 0.01 0.043 4.54 0.081 1.26 01122 0.453 0.012 0.169 0.071 123478-HxCDF 0:030 0.01 0.014 2.63 0.025 0.407 0.116 0.043 0.004 0.054 0.022 123678-HxCDW 0.01 0.024 0.926 0.024 0.515 0.082 0.062 0.010 0.068 0.025 234678-HxCDF 0 f 0 **4**4 123789-HxCDF 0.01 0.006 0.907 0.000 0.048 0.115 0.003 0.000 0.000 0.003 0.072 0.001 0.002 0.001 OTHER HXCDF 0.0001 0.001 0.001 0.018 0.000 0.002 0.575 0.052 0.049 0.001 0.014 0.264 0.039 0.006 1234678-HpCDF 0.016 0.014 0.001 0.002 0.618 0.000 0.070 0.028 0.007 0.001 0.006 0.003 1234789-HpCDF 0.00001 0.000 0.004 0.000 0.000 0.000 OTHER HOCDE 0.000 0.001 0.000 0.000 0.000 0.000 0.000 OCDF 0.000 0.000 0.000 0.000 0.000 0.000 TOTAL PCDF 1.10 1.73 2378-TCDD 0.520 119 7.57 16.8 1.53 0.074 1.29 TOTAL PCDD+PCDF TOXIC EQUIVALENT

Not detected congeners are considered zero for calculating 2378-TCDD toxic equivalents.

Average of duplicate analyses.

Aluminum sweat furnace.

TABLE 4-8. 2378-TCDD TOXIC EQUIVALENT CONCENTRATIONS FOR THE ILLINOIS WRI ASH SAMPLES

2378-TCDD 2378-TCDD TOXIC EQUIVALENTS (ng/g) TOXIC ALCO WESTING-BOCK EQUIVALENTS ELGIN LAKE b PIELET EDELMAN STEEL SALVAGE MIDWEST BROTHERS ALLIED HOUSE HIDLAND **FACTORS** Congener 2378-TCDD 0.000 10.7 40.3 26.4 0.290 0.036 0.000 0.000 0.051 0.000 29.3 OTHER TODD 0.000 1.38 5.62 3.75 0.835 0.010 0.079 0.000 0.016 0.000 0.01 0.158 0.000 14.2 55.2 30.3 0.635 0.094 0.000 0.005 0.000 12378-PCDD 0.5 35.3 0.156 OTHER PCDD 0.005 0.001 1.37 7.42 5.27 1.77 0.181 0.019 0.240 0.000 0.033 0.000 123478-HxCDD 0.04 0.000 1.72 6.22 4.29 3.88 0.074 0.011 0.000 0.000 0.020 0.000 0.000 0.005 3.69 0.037 0.398 0.062 0.000 123678-HxCDD 0.04 14.4 11.5 8.12 0.212 0.04 0.006 1.52 17.6 7.69 0.267 0.050 0.561 0.001 0.083 0.000 123789-HxCDD 13.1 0.003 OTHER HxCDD 0.0004 0.000 0.237 1.20 0.825 0.345 0.024 0.041 0.000 0.005 0.000 0.000 1234678-HpCDD 0.001 0.001 0.765 2.69 2.44 1.26 0.037 0.009 0.087 0.015 0.000 0.007 0.000 0.000 0.000 0.005 0.021 0.017 0.000 0.000 0.000 OTHER HPCDD 0.00001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 OCDD 0.000 0.000 TOTAL PCDD 0.1 0.009 226 2378-TCDF 79.6 130 86.4 0.300 0.145 1.048 0.000 0.109 0.000 OTHER TCDF 0.001 0.002 1.72 5.56 4.91 6.29 0.125 0.019 0.258 0.000 0.015 0.000 0.1 0.017 93.0 299 0.355 0.148 0.893 0.003 0.228 12378-PCDF 61.8 99.3 0.001 23478-PCDF 0.1 0.050 41.3 118 88.9 222 0.935 0.278 2.511 0.004 0.326 0.004 0.001 0.004 OTHER PCDF 1.89 5.87 4.76 8.28 0.095 0.018 0.170 0.000 0.017 0.000 0.028 0.669 123478-HxCDF 0.01 11.4 18.1 19.0 39 . 8 0.323 0.083 0.001 0.074 0.001 0.01 0.006 11.7 0.000 0.026 0.200 0.000 123678-HxCDF 6.00 9.62 0.101 0.029 0.001 9.19 234678-HxCDF 0.01 0.011 3.98 11.6 13.7 0.196 0.045 0.430 0.000 0.048 0.001 123789-HxCDF 0.01 0.000 2.08 2.42 1.89 11.0 0.038 0.000 0.059 0.000 0.000 0.000 0.0001 OTHER HXCDF 0.000 0.184 0.439 0.365 0.135 0.006 0.001 0.011 0.000 0.001 0,000 1234678-HpCDF 0.001 0.009 1.65 2.65 3.01 3.20 0.071 0.025 0.166 0.000 0.013 8.000 1234789-HpCDF 0.001 0.001 1.64 2.02 1.78 3.54 0.012 0.005 0.017 0.000 0.004 0.000 0.00001 OTHER HPCDF 0.000 0.014 0.025 0.023 0.033 0.000 0.000 0.001 0.000 0.000 0.000 0 0.000 0.000 0.000 0.000 0.000 OCDF 0.000 0.000 0.000 0.000 0.000 0.000 TOTAL PCDF 2378-TCDD 0.153 249 552 1.06 435 91.2 4.43 0.016 7.85 1.31

TOTAL PCDD+PCDF TOXIC EQUIVALENT

Not detected congeners are considered zero for calculating 2378-TCDD toxic equivalents.

Aluminum sweat furnace.

Hotor burn-off oven.

TABLE 4-10. COMPARISON OF ASH AND SOIL TEF'S BY SITE

Site	Ash (TEF)	Soil (TEF)
Lake Salvage	912	1.51 ^a 4 7.57 ^b
Elgin	552	18.8
	435	·
Alco Steel	249	119 c 1.10 ^d
Allied	7.85	1.73
Midwest	4.43	1.53
Midland	1.31	1.29
Pielet	1.06	0.074
Edelman	0.153	0.520
Westinghouse	0.016	N/A
Rock Island	0.009	N/A

N/A = Soil samples were not collected and analyzed for these sites.

aCollected from ask storage area,

bCollected from near incinerator.

^CCollected in front of the primary and secondary chambers. Result is an average of duplicate analyses.

dCollected near the afterburner.

# SEE REFERENCE SHEET FOR SENSITIVE INFORMATION

	•	DOCUMENT:				
SITE	NUMBER	ILD	076	87 <i>5</i>	Z <i>85</i>	
SITE	NAME:	LAKE	SALV	AGE (	COMPANY	